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CORNELL UNIVERSITY

AGRICULTURAL EXPERIMENT STATION

A LIST OF THE INSECTS OF NEW YORK

WITH A LIST OF THE SPIDERS AND CERTAIN OTHER ALLIED GROUPS

MORTIMER DEMAREST LEONARD
Editor-in-Chief

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CONTENTS*

	PAGE
Introduction	5
Faunal districts	7
Class Insecta	11
Thysanura	11
Collembola	12
Orthoptera	17
Isoptera	38
Neuroptera	38
Ephemerida	42
Odonata	45
Plecoptera	57
Corrodentia	60
Mallophaga	63
Thysanoptera	66
Anoplura	73
Hemiptera	74
Homoptera	142
Dermaptera	202
Coleoptera	203
Strepsiptera	521
Mecoptera	521
Trichoptera	522
Lepidoptera	532
Diptera	687
Siphonaptera	868
Hymenoptera	870
Class Arachnida	1034
Araneae	1034
Opiliones	1074
Acarina (Eriophyidae)	1076
Class Diplopoda	1079
Chilognatha	1079
Class Chilopoda	1081
Schizotarsia	1081
Anamorpha	1081
Epimorpha	1082
Class Myrientomata	1083
Protura	1083
List of orders, and number of families, genera, and species recorded	1084
List of the more important collecting stations not in the United States Official Postal Guide	1085
List of cooperators and authorities	1088
Index of orders, families, and genera	1093

* The sequence of orders, and, unless otherwise indicated, of families, is that followed by Comstock in *An Introduction to Entomology*.

A LIST OF THE INSECTS OF NEW YORK

WITH A LIST OF THE SPIDERS AND CERTAIN OTHER ALLIED GROUPS

Mortimer Demarest Leonard[1]

INTRODUCTION

New York State has for many years been a favorite collecting ground for insects, and from within its boundaries an immense number of specimens have been accumulated. For the most part, these specimens repose in the extensive collections of Cornell University at Ithaca, the New York State Museum at Albany, the American Museum of Natural History in New York City, the Brooklyn Museum, and Syracuse University. These institutions, however, by no means possess all of the material collected, for a number of persons have collected and studied insects at various points in the State for years and their private collections are rich in numbers both of species and of individual specimens. In addition there is much New York material in other States, due to exchange or removal by workers from other parts who have collected here. This material is included in the collections of museums and of specialists all over the United States and Canada.

Although New York material has either formed the basis, or been included in many pages, of monographic and revisional papers as well as of a number of local faunal lists, undoubtedly the bulk of it in collections is still to be mentioned in literature. Some of the best and most careful collecting in the State has been done by individuals who have published but little if anything.

Because of what had already been done, and as a stimulus to further collecting and study, it seemed advisable to take inventory of all those species definitely known to occur within the State and to record as far as possible the distribution of each within this area. This in brief is the scope of the present list. The date of occurrence or the seasonal range is also given, as far as it can be determined.

This "List of the Insects of New York" is the outgrowth of a project initiated about twelve years ago by a committee of a number of the leading entomological specialists, including representatives of the various institutions and societies interested. Dr. J. Chester Bradley, of Cornell University, was appointed Editor-in-Chief of the Board of Editors, and a group of subeditors was selected composed of leading specialists in the major groups. The task was a considerable one, but these workers attacked it vigorously and thousands of records were transcribed to cards from the literature and from determined specimens.

[1] Editor-in-Chief.

Pressure of other work later prevented Dr. Bradley from continuing in charge, and the present editor was appointed in the spring of 1923, while he was Acting State Entomologist at Albany, New York. The Board of Editors was somewhat modified, for various reasons, and in the fall of 1924 the work was transferred to Cornell University, where it was completed under special appropriations by the New York State College of Agriculture and the Heckscher Research Fund. To these funds the New York Academy of Science added $150 and the New York Entomological Society a like amount.

It is impossible here to express thanks individually to the large number of specialists and collectors, more than one hundred and fifty in all, whose work has made it possible to gather together the data from the great mass of published records and from specimens in public and private collections. We believe we have been successful in transcribing by far the greater part of these data, and no effort has been spared to include everything. Such acknowledgment is made in the text and in the list of co-operators beginning on page 1088. Special acknowledgment should be made, however, for assistance in many ways, to the authorities and officers of Cornell University, the American Museum of Natural History, the Brooklyn Museum, the New York Academy of Science, the Staten Island Institute of Arts and Sciences, the New York State Museum, Syracuse University, the New York Entomological Society, the Brooklyn Entomological Society, the United States Bureau of Entomology, and the United States National Museum.

The editor wishes to make particular acknowledgment to Professors O. A. Johannsen and C. R. Crosby for supervision of the many details in connection with seeing this publication through the press—a task to which the editor has been unable to attend personally. The editor wishes also to acknowledge with appreciation the painstaking effort of Miss Lela G. Gross, Assistant Editor of Publications at the New York State College of Agriculture. She has been responsible for the selection of the various kinds of type and for all other matters in connection with the mechanical arrangement of the List, and in immediate charge of all corrections and additions to the proof. Final typewritten copy was made by Mrs. H. M. Fridley. Her intelligent and continued interest in what proved to be far more than merely a clerical piece of work greatly facilitated its completion.

Because of the studies made by certain specialists and the availability of records in certain other groups besides insects, there have been included lists of the following: the millipedes and centipedes, the spiders and harvestmen, the eriophyid mites, and the ticks. In all, 16,124 species and varieties are included, of which 15,449 are insects. It is difficult to determine what percentage of the total number of species this figure represents. In many parts of the State but little collecting has as yet been done and many groups are still imperfectly known. It is not unlikely, therefore,

that more intensive collecting and study should increase the present total by at least 25 per cent. It is hoped that the present list will increase both the number of collectors and the number of workers, and will stimulate further study along this line.

The name of a collector or its abbreviation is indicated by the use of italics, thus—*Ndm*; that of the person responsible for a determination or as having supplied a record is placed in parentheses, thus—(Ndm); italics in parentheses indicate that the same person is both collector and determiner, thus—(*Ndm*). Where the determiner is unknown the location of the material upon which the record is based is often given, and occasionally both determiner and location are indicated in parentheses; for example, (Vdyk CU), (VdykCU), or (Vdyk–CU), means determination by Van Dyke of specimens in the Cornell University collection.

The data in connection with each locality are separated by semicolons. Staten Island and Long Island localities come after a colon following **SI** and **LI** in bold-faced type.

Owing to a misunderstanding on the part of one of our editors, the species numbers which are used in the Hemiptera and the Coleoptera were omitted from the manuscript in some cases. It was thought that the slight inconvenience which might result from these omissions would not be sufficient to warrant the expense which would have been involved in making the corrections in the proof, and therefore the numbers are missing in these cases.

FAUNAL DISTRICTS

W. T. M. FORBES

For convenience in indicating localities, the State of New York may be divided into the districts shown on the accompanying map. They are distinguished partly by climate, but more by topography and geological substrata; and they are laid out with but little reference to life zones. The Adirondack, Appalachian, and Taconic districts, the Tug Hill plateau, and the small area of the New Jersey Highlands which extends into the State, represent the higher country, the intervening districts being the plains and the broader river bottoms. The Coastal Plain is represented by Staten Island and Long Island.

The *St. Lawrence Plain* is a broad open valley so far as New York is concerned, while on the Canadian side it is continuous with the broad St. Lawrence Plain of that region. Because of the northern latitude the climate represents the Transition zone, though the altitude is only a little above sea level. Relatively little collecting has been done here, the most important localities being perhaps Waddington and Ogdensburg near the northern boundary of the State, and Clayton near the mouth of Lake Ontario.

The *Adirondack* district comprises a great plateau of from 1500 to 1800 feet elevation, cut with valleys which are as a rule too narrow to shelter

many southern forms, and rising in the eastern part into a group of mountains which reach an elevation of 5344 feet. The plateau shows in general the Canadian fauna, and is very largely still forest-covered, with many

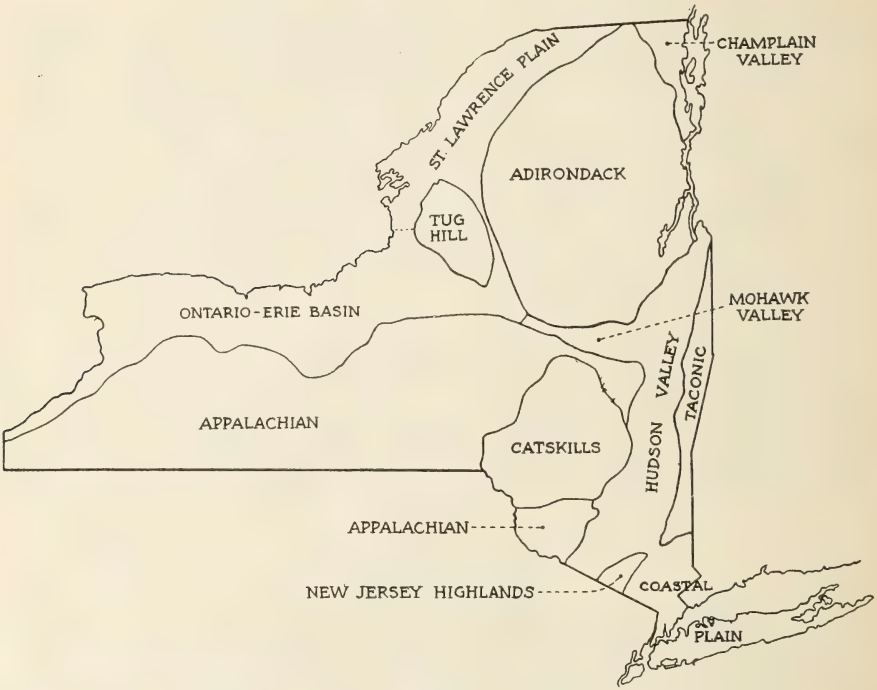

FIGURE 1. PRINCIPAL FAUNAL AREAS OF NEW YORK

lakes and cold bogs. The mountains higher than about 3500 feet rise into the Hudsonian, with conditions much like those of Labrador; while the tops of a few peaks (Marcy, McIntyre, and Whiteface) are alpine in character, largely as a result of the perpetual winds, which keep the forest down and allow the truly alpine plants and animals a foothold. The higher peaks of the northern group have been well explored entomologically, but the southern group, which should show cold Canadian conditions with some Hudsonian, will repay careful collecting. Collectors in many orders have worked in the plateau region, especially about Saranac and Cranberry Lakes and the Fulton Chain; but the most complete list

in any large order is perhaps that due to Hill's many years of collecting of Lepidoptera at Fentons, on the west edge of the plateau.

Tug Hill is a plateau of about 1500 feet elevation, with a nearly level top and containing many lakes and swamps. Geologically it attaches not to the Adirondacks close by, but to the Appalachians, while in latitude it should be grouped with the Adirondacks. Entomologically it is unexplored.

The *Ontario-Erie Basin* is a broad plain bordering Lakes Ontario and Erie, and to the northward joining the St. Lawrence Plain. In spite of much snow and cold in winter, conditions are distinctly Upper Austral in the western part; while at North Fair Haven and eastward, Transition forms dominate. It is continuous with the Mississippi Valley on the west, but is reduced along Lake Erie to a strip two or three miles wide. On the north side of Lake Erie, southern Ontario shows the same mild climate and Austral forms. In most orders representatives of both faunal zones are present, especially for the region near Buffalo.

The *Appalachian* district, like the major part of the Adirondack district, is a plateau of from 1500 to 2000 feet elevation, but is cut into numerous blocks by deep through valleys. The characteristic insects represent the Transition zone, but many of the north-facing slopes show Canadian forms, and here and there in the valleys there are pockets with a few Austral species. This is the district for which general remarks as to dates and life cycles, particularly in the Lepidoptera, especially apply. The most thoroughly collected locality is Ithaca, lying in one of the deep through valleys. This fauna of the western part of the district is well indicated by collections made at Rock City, Cattaraugus County, at an elevation of 2500 feet. The interesting narrow strip lying between the Catskills and the Mohawk Valley was studied many years ago by the Albany group of workers. Sharon Springs represents this area, and shows typical Appalachian forms. The Appalachian area south of the Catskills has not been sufficiently studied.

The *Catskills* are a mass of mountains with peaks rising to an elevation of 4204 feet. Most of the collecting has been done at relatively low levels, and shows much the same mixture of Canadian and Transition forms as are found on the colder tops of the Appalachian plateau; but the peaks rise well toward the top of the Canadian zone, and a careful study would probably show Hudsonian forms. The most extensive list of insects in this district consists of the Lepidoptera of Big Indian Valley and Slide Mountain.

The *Mohawk Valley* is a narrow valley separating the Adirondack and Appalachian districts. Most of the country is much broken, and the insects are not very different in character from those of the Appalachian district, but a few southern forms do appear. Such places as Trenton Falls and Wilmurt, in the southern foothills of the Adirondacks, are included in this area because their fauna is more southern in character.

The *Champlain Valley* is a broad open valley similar in conditions and fauna to the St. Lawrence Plain. There is a good list of Lepidoptera from Plattsburg, showing a typical Transition fauna and containing many southern forms. The fauna of Peru is more northern in character, and represents the broad sandy area on the eastern side of the Adirondack district, with peculiar dune forms. The area as a whole has not been sufficiently studied.

The *Hudson Valley* is an open valley with a decidedly Austral character, especially south of Albany; northward it is narrow and broken, with a Transition fauna continuous with that of the Champlain Valley but showing a greater dominance of acid-soil forms in the Lepidoptera than any other part of the State in which the writer has collected. There are several good lists, especially those based on the material from the vicinity of Albany in the State Museum, and from a group of localities in the lower valley collected by Dyar and by the New York City entomologists. Florida, in Orange County, where S. W. Frost did some collecting, is in an extension of this district across to the Delaware River, and shows the same rather warm conditions.

The *Taconic* district consists of a sharp range of mountains extending along the eastern edge of the State, continuous with the Green Mountains of Vermont on the north, and with the Berkshire Hills on the east. To the southward they are separated from the Highlands of the Hudson only by the narrow gorge of the Hudson River. They have not been properly explored entomologically, the few short Taconic lists of insects being from the warmer deep valleys; but they show a true Canadian fauna with many acid-soil forms, like the Berkshires just across the state line.

The *New Jersey Highlands* and the Highlands of the Hudson represent the same wooded hilly area, continuous with the Taconics and Green Mountains on the north and the Blue Ridge on the south. The insects of this district have not been thoroughly collected, but the fauna of its extension into New Jersey shows a Transition character with woodland forms dominant because of the low altitudes, but with few of the cooler Transition forms.

New York City is not really a separate district, but it is particularly well known. The climate is practically Upper Austral, with some cooler areas in Westchester County. The country is hilly and originally was wooded, showing the forest type. The exact locality of many of the earlier records given as New York City and vicinity is very uncertain, a large region including Long Island, Staten Island, the lower Hudson River Valley, and part of New Jersey, being included.

The *Coastal Plain* comprises the whole of Long Island and Staten Island, with the mainland coast and the vicinity of New York City, just discussed. A great part of it is glacial moraine, more or less worked over by wind and water, and contains areas of sand and gravel and many square miles of

salt marshes. The barrens have been fairly well surveyed, but the marsh needs more intensive study, and the relatively small areas of rich upland which have not yet been too much disturbed by man should receive special attention. It is certain that many forms now known only from Massachusetts and New Jersey, or even farther afield, will be discovered in this area. The climate is, as a whole, Upper Austral, but the easterly part of Long Island shows distinctly colder types and might best be assigned to the Transition zone. Unfortunately many of the early records are merely "L. I."

CLASS **INSECTA**

ORDER **THYSANURA**

Compiled by J. W. FOLSOM

FAMILY **MACHILIDAE**

MACHILIS Latreille

M. variabilis Say. Southern end of Canandaigua L., Aug, *Bish.* Generally distributed: Mass, NY, Ind, Tenn, and NC.

M. (Trigonophthalmus) alternata Silv. **LI:** Cold Sp. Harb. (Silv).

FAMILY **LEPISMIDAE**

SUBFAMILY **LEPISMINAE**

LEPISMA Linnaeus

L. saccharina L. Macedon, Je, *Hd*; Ithaca, Ap, Jl, Oct (MacG). Generally distributed: Europe; Mass, NY, Tex.

CTENOLEPISMA Escherich

C. quadriseriata Pck. Ithaca, Feb (MacG). Generally distributed: Mass, RI, Conn, NY, Tenn.

THERMOBIA Bergroth

T. domestica Pck. Ithaca, abundant in Roberts Hall for last 10 years at least; Ft. Plain, Aug–Sep, destroying paper (Felt); Albany (Felt); Peekskill?, eating laces and paper boxes (Lint); NYC, very abundant in house during the whole year of 1922 (Mutchler). Generally distributed: Mass, NY, Ill.

FAMILY **CAMPODEIDAE**

CAMPODEA Westwood

C. fragilis Mein. Ithaca, Je, in damp sandy earth, *WSBarnard*; Albany, Je, *Yg*, *Bish*; Voorheesville, Aug, *Leon*, is typical *fragilis*, not var. *americana* Pck. Generally distributed: Europe; eastern US.

C. fragilis var. **americana** Pck. Ithaca, Feb (MacG, Silv); **LI:** Cold Sp. Harb. (Silv).

ORDER COLLEMBOLA

Compiled by J. W. FOLSOM

FAMILY PODURIDAE

SUBFAMILY PODURINAE

PODURA (Linnaeus) Tullberg

P. aquatica L. (*granulata* MacG.). Ithaca, Oct–Nov, *RubyBHughes*. Common on surface of water of ponds and streams; adapted to a semi-aquatic existence; often appears in aquaria. Generally distributed: Europe; Siberia; Canada; Mass, NY, Ohio, Ind, Ill, Tenn, Wis, Minn, Wash.

SUBFAMILY ACHORUTINAE

ACHORUTES Templeton

A. packardi Fols. (*nivicola* Pck., 1873; Lint., 1885; MacG., 1891; Harv., 1893; Lint., 1896). Macedon, Ap–May, *Hd*; Ithaca, Jan–Feb (Comstock&MacG); Stockport, Ap; Monsey, Mar, *HGlasgow*. Generally distributed: Me, Mass, NY, Penn, Md, Ohio, Ill; Canada.

A. packardi var. **dentatus** Fols. Potsdam, May, *Yg*; Ithaca, Ap (MacG); Ghent, Ap. Generally distributed: Me, Mass, NY, Ohio.

A. socialis Uzel (*diversiceps* Lint.). Otto, *Comstock*; Karner, Ap, *Lint*; Voorheesville, Ap, on snow, *Bish*; Kingston, Mar, pools black with them, *Leon*. The "snow flea" was described by Fitch (1847) under the name *Podura nivicola*; Uzel gave, however, the first adequate description of the species. Generally distributed: common in most parts of Europe; Me, Mass, NY, Penn, Mich; Canada.

A. harveyi Fols. Ithaca, Ap (MacG). Generally distributed: Me, Mass, Conn, NY, Md; Canada.

A. macgillivrayi Fols. Ithaca, Ap–Nov (MacG). Generally distributed: NY, Ill.

A. manubrialis Tull. **LI**: Riverhead, Oct, frequently doing great damage to cauliflower plants, seedling cucumbers, and melons (Huck). Generally distributed: Europe; S. America; NY.

A. armatus Nic. (*boletivorus* Pck., *marmoratus* Pck., *texensis* Pck., *pratorum* Pck.). Varna, Mar, *Bks*; Ithaca, Ap (MacG); NYC, Jl (Silv). Generally distributed: cosmopolitan. Europe; S. America; New Zealand; Sumatra; Canada; Cuba; Me, NH, Mass, Conn, NY, Penn, Ohio, Ill, Mo, Tex, Minn, Colo, Calif, Wash, Alaska.

A. (Schöttella) glasgowi Fols. Blauvelt, Mar, May, *HGlasgow*; NYC, Jl (Silv).

XENYLLA Tullberg

X. humicola Tull. **LI**: Cold Sp. Harb., *CBDavenport*. Generally distributed: Europe; Canada; Mass, NY.

X. welchi Fols. **LI**: Bay Shore, Oct, in a greenhouse. Generally distributed: NY, Ill, Kans.

X. maritima Tull. Macedon, Ap, *Hd*. Generally distributed: Europe; NY.

SUBFAMILY NEANURINAE

PSEUDACHORUTES Tullberg

P. dilatatus MacG. (*Brachysius* MacG.). Ithaca; types apparently lost. Generally distributed: NY.

ANURIDA Laboulbène

A. maritima Guér. **LI:** Sea Cliff, *Bks*; Cold Sp. Harb., *CBDavenport*. On seashore between tide marks; feeds on dead mollusks or crustaceans and is strictly maritime. Generally distributed: Europe; North America; Atlantic coast, Mass, NY, NJ, Fla.

NEANURA MacGillivray

N. muscorum Temp. (*Anura gibbosa* Pck., *A. sextuberculata* Harv.). Macedon, Ap, *Hd*; Ithaca, Mar–Ap (MacG); McLean, Je, *Cy*; Voorheesville, Aug, *Leon*, *Bish*. Generally distributed: Europe; Canada; Me, NH, Mass, Conn, NY, Penn, Ohio, Ill, Minn.

SUBFAMILY ONYCHIURINAE

ONYCHIURUS Gervais

O. armatus Tull. Ithaca, Feb (MacG). Generally distributed: Europe; Siberia; Arctic region; E. Africa; Chile; Me, NY, Ill.

O. subtenuis Fols. Keuka L., Oct, *Cy*; McLean Bogs, Ap, Je, *Cy*; Voorheesville, Aug, *Leon*. Generally distributed: NY, Penn, Ill.

O. fimetarius L. McLean Bogs, Ap, *Cy*; NYC, Jl (Silv). Generally distributed: cosmopolitan. Europe; Africa; Sumatra; Canada; Mass, NY, Penn, DC, Fla, Ohio, Calif.

TULLBERGIA Lubbock

T. sp. Central Nyack, Nov, 1918, *BYSidoli* (from WEBritton). Generally distributed: NY.

FAMILY ENTOMOBRYIDAE

SUBFAMILY ISOTOMINAE

ANUROPHORUS Nicolet

A. laricis Nic. NYC, Jl, 1908 (Silv). Generally distributed: Europe; Siberia; NY, Minn.

FOLSOMIA Willem

F. quadrioculata Tull. Mt. McIntyre, 4000–5000 ft., Jl, *Leon*; NYC, Jl (Silv). Generally distributed: northern and middle Europe; Arctic regions, Canada; NY, Ill, Minn.

F. fimetaria L. Ithaca, Mar, *Ndm*, Nov; NYC, May. One of the commonest of the soil species. Often under stones, loose bark, etc. Common in flowerpots in dwellings and greenhouses. Often on well water. Generally distributed: Europe; Siberia; Arctic islands; Mass, NY, NJ, DC, Ohio, Ill, Ia, Kans, Minn, Calif, Alaska.

F. nivalis Pck. NYC, Jl, 1908 (Silv). Generally distributed: Me, NY, Ia.

ISOTOMA Bourlet

I. besselsi Pck. **LI:** Cold Sp. Harb., Jl, *CBDavenport*. Strictly littoral; on seashore between tide marks; probably distributed by marine currents. Generally distributed: Finland; Norway; England; Scotland; Greenland; Spitzbergen; Nova Zembla, etc.; Tierra del Fuego; Mass, NY, Calif.

I. schäfferi Krausbauer. Voorheesville, Nov, *Leon*. Generally distributed: Europe; NY, Mass.

I. minuta Tull. Westport, May, *FCSmith*, "in hotbeds in large numbers"; Red Hook, Je (Felt); Nassau Co, Ap, *Cy*, "in greenhouse in masses." A soil species; minute, but sometimes occurring in masses in immense numbers. Generally distributed: Europe; Canada; Mass, Conn, NY, Penn, Ga, Ill, Ia, Kans, Tex.

I. immersa Fols. **LI:** found in enormous numbers in a mushroom cellar (Lint). Generally distributed: NY.

I. albella Pck. Potsdam, May, *Yg*; Wells, Jl, *Yg*; Geneva, Jl, *HGlasgow*; Albany, Feb, from a filter of city water (Lint).

I. walkeri Pck. (*leonina* Pck.). Macedon, Ap, *Hd*; Ithaca (MacG). Common in colonies under recently loosened bark of trees or logs. Generally distributed: Mass, NY, Penn, Ohio, Ill, Ia, Minn; Canada.

I. olivacea Tull. Albany, May, 7, 1924, *Yg*. Generally distributed: Northern Europe; Greenland; Canada; NY.

I. cinerea Nic. (MacGillivray's *unica, dilatata, inclinata,* and *lateraria*). Macedon, Ap–May, *Hd*; Ithaca (MacG); Albany, May, *Yg*. Abundant in colonies under recently loosened bark of trees and logs. Generally distributed: Europe; Siberia; Franz Josef Land; Canada; Me, Mass, NY, Ohio, Ill.

I. arborea L., Agren. (MacGillivray's *synonymica* and *terminata*). Potsdam, May, *Yg*; Macedon, Ap–May, *Hd*; Ithaca, Feb–Mar (MacG), Mar, *Dobroscky* (Fols). Generally distributed: Northern Europe; Me, Mass, NY, Ohio, Ill.

I. arborea var. **nigra** MacG. (*nigra, brunnea,* and *speciosa*). Ithaca, Mar, 1890 (MacG). Generally distributed: Me, Mass, NY, Ohio, Ill, Minn; Canada.

I. viridis Bourlet (Packard's *glauca* and *plumbea*). Potsdam, May, *Yg*; Macedon, Ap, *Hd*; Ithaca, Sep (MacG); McLean Bogs, Ap, *Cy*; Albany, Je, *Yg*; **LI**, *Bks*. Abundant in soil, under wood, stones, etc.; the largest species of its genus in NA and Europe, and easily seen with the naked eye. Generally distributed: Europe; Arctic islands; Canada; Me, NH, Mass, NY, DC, Ohio, Ill, Tenn, Ia, Tex, Minn, Colo, Calif, Wash, Alaska.

I. viridis var. **riparia** Nic. Mt. McIntyre, 4000–5000 ft., Jl, *Leon*; Ithaca, Feb–Mar (MacG); **LI**, Dec, *Bks*. Generally distributed: Europe; Siberia; Canada; NY, NH, Va, Ia, Tex, Calif.

ISOTOMURUS Börner

I. palustris Müller (*aequalis* MacG.). Sodus Pt., Je, *Hd*; Ithaca, May–Je, Oct, *RubyBHughes*; Voorheesville, Aug, *Leon*; Pine Plains, Je, *Yg*; **LI:** Great Pond, Riverhead, May, *Bish*. A common species on the surface of pools and streams; varies greatly in coloration. Generally distributed: Europe; Greenland; Canada; Cuba; Me, Mass, NY, Md, Ga, Ohio, Ill, Ia, Wis, Tenn, Tex, Minn, Calif.

SUBFAMILY **TOMOCERINAE**

TOMOCERUS Nicolet

T. flavescens Tull. var. **separatus** Fols. Mt. McIntyre, 4000–5000 ft., Jl, *Leon*; Barneveld, Ap–Oct, *GeoNWolcott*; Penn Yan, May, *Cy*; Ithaca, Sep (MacG); McLean, Jl, *Cy*; Howard, Jl, *Cy*; Ballston L., Aug, *Wlf*; High Bridge Gorge, Schenectady, Aug, *Wlf*; Basin Bay, L. George, Aug, *CarylHaskins*; Karner, Jl, *Wlf*; Voorheesville, Je, *Bish, Wlf*; Nassau L., Sep, *Leon* & *Wlf*; Slide Mt., Je, *Cy*; Highland, Aug, *Wlf*; West Park, Aug, *Wlf*; Ramapo Mts., Suffern, May, *Cy*; **LI**, *Bks*. Generally distributed: Me, NH, Mass, NY, Penn, DC, Ga, Tenn, Ohio, Ind, Ill, Ia, Mo, Mich; Nova Scotia; Ontario.

T. flavescens Tull. var. **americanus** Schött. Mt. McIntyre, 4000–5000 ft., Jl, *Leon*; Adirondack Lodge, Je, *Bish*; Potsdam, May, *Yg*; Barneveld, Ap–Oct, *GeoNWolcott*; Ithaca, Jl, Sep (MacG); McLean Bogs, Ap, Je, *Cy*; Howard, Jl, *Cy*; Ballston L., Aug, *Wlf*; Basin Bay, L. George, Aug, *CarylHaskins*; Nassau L., Sep, *Leon* & *Wlf*; Tompkins Corners, Jl, *Wlf*; Karner, Jl, *Wlf*; Voorheesville, Je, *Wlf* & *Bish*, Aug, Nov, *Leon*; Slide Mt., 3000 ft., Je, *Leon*; White Plains, Sep, *Leon*; **SI**, Jan; **LI**: Great Pond, Riverhead, May, *Bish*. A soil species; not known to be of economic importance. Generally distributed: NH, Mass, NY, NJ, Va, Ohio, Ill, Tenn, Mo, Mich, Minn, Miss, Tex, Colo, N. Mex, Calif, Ore, Wash, Alaska; Canada.

T. vulgaris Tull. Potsdam, May, *Yg*; Adirondack Lodge, Je, *Bish*; Wells, Jl–Aug, *Yg*; Ithaca, Ap, Sep (MacG); Freeville, Aug, *Cy*; Claverack, Mar, *Cy*. Generally distributed: Europe; Canada; Me, NH, Mass, NY, Penn, Ill, Colo, Minn, Wash.

SUBFAMILY **ENTOMOBRYINAE**

ENTOMOBRYA Rondani

E. purpurascens Pck. Potsdam, May, *Yg*; Adirondack Lodge, Je, *Bish*; Wells, Je, Aug, *Yg*; Macedon, Ap, *Hd*; Ithaca, Mar, *Dobroscky*; Voorheesville, Aug, *Leon*; Nassau L., Sep, *Wlf*; **LI**: Jamaica, Je, *Wlf*; Great Pond, Riverhead, May, *Bish*. Generally distributed: Mass, NY, Ill; Canada.

E. griseo-olivata Pck. "NY", Mar 27, 1890 (MacG). Generally distributed: Mass, NY.

E. hexfasciata Harv. Adirondack Lodge, Je, *Bish*; Slide Mt., Je, *Cy*; Karner, Jl, *Wlf*; Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Leon*; Valley Cr. Swamp, near Voorheesville, Je, *Bish* & *Wlf*; Nassau L., Sep, *Wlf*; **LI**: Riverhead, May, *Bish*; Mineola, Jl, *Wlf*. Generally distributed: Me, Mass, NY; Canada.

E. ligata Fols. Ithaca, Aug (MacG); Karner, Jl, *Wlf*; Voorheesville, Aug, *Leon*; **LI**: Mineola, Jl, *Wlf*; Garden City, Je, *Wlf*. Generally distributed: NY.

E. multifasciata Tull. (*decemfasciata* Pck.). Potsdam, May, *Yg*; Ithaca, Mar–Ap (MacG); Voorheesville, Aug, Nov, *Leon*; **LI**: Garden City, Je, *Wlf*; Montauk, May, *Cy*. Generally distributed: Europe; Me, Mass, NY, Tenn, Tex, Calif, Wash.

E. assuta Fols. Macedon, Ap–May, *Hd*; Geneva, Je, *HGlasgow*; Ithaca, Jan–Feb, *Dobroscky*. Generally distributed: Vt, NY, Ill.

E. mineola Fols. **LI**: Mineola, Jl 8, 1923, *Wlf*, type.

E. clitellaria Guthrie. Macedon, Ap 20, 1924, *Hd*. Generally distributed: NY, Ill, Minn.

SIRA Lubbock

S. buski Lub. Nassau L., Sep 3, 1923, *Wlf*. Generally distributed: Europe; Siberia; Canada; Mass, NY.

LEPIDOCYRTUS Bourlet

L. albus Pck. Voorheesville, Aug 30, 1923, *Leon* & *Bish*. Generally distributed: Europe; Mass, NY.

L. cyaneus Tull. (*metallicus* Pck.). Wells, Je, Aug, *Yg*; Adirondack Lodge, Je, *Bish*; Mt. McIntyre, 4000–5000 ft., Jl, *Leon*; Spy L., Je, *Yg*; Macedon, Ap, *Hd*; Ithaca, May, Dec (MacG); Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Leon* & *Bish*, Nov, *Leon*; **LI:** Sea Cliff, Jl, *Bks*. Generally distributed: Europe; Siberia; Africa; Me, Mass, NY, Ohio, Tenn, Alaska.

L. violentus Fols. Potsdam, May, *Yg*; Voorheesville, Nov, *Leon*. Generally distributed: Mass, NY, Ind, Ill.

ORCHESELLA Templeton

O. cincta L. (*flavopicta* Pck.). Albany, *JHEmerton* (Pck), also (Lint); **LI:** Sea Cliff, *Bks*. Generally distributed: Europe; Siberia; Mass, NY, Tenn.

O. ainsliei Fols. Voorheesville, Nov 9, 1923, *Leon*. Generally distributed: NY, Tenn, Ill, Ia.

FAMILY SMINTHURIDAE

SUBFAMILY SMINTHURIDINAE

PROSMINTHURUS Willem

P. aquaticus Bourlet (*amicus* Fols.). Ithaca, spring and fall, *RubyBHughes*; Albany, Feb, *CarylHaskins*. Found on the surface of ponds and streams; structurally adapted for locomotion on the surface of the water. Generally distributed: Europe; Canada; Mass, NY, Ohio, Ill.

SMINTHURINUS Börner

S. elegans Fitch, 1863 (*quadrilineatus* Tull., 1871). **LI:** Sea Cliff, *Bks*. Generally distributed: Europe; Mass, NY, W. Va, Ohio, Tenn.

SUBFAMILY SMINTHURINAE

BOURLETIELLA Banks

B. hortensis Fitch, 1863 (*quadrisignatus* Pck., *pruinosus* Tull., 1872). Macedon, Je, *Hd*; Oneonta (Felt); Albany (Fitch); **LI:** Sea Cliff, *Bks*. Abundant in gardens and fields, and occasionally of great economic importance locally; has caused considerable injury to young vegetable plants—cucumbers, onions, etc.—in Mass, Conn, Va. In Mass, May, 1922, it occurred in onion fields in astonishing numbers with serious injury, and fields had to be plowed up (Amherst, Mass, Fern). In Nova Scotia it wrought havoc, throughout the province, to turnips, mangels, etc., as these were emerging from the ground (WHBritton). Generally distributed: Europe; Japan; Canada; Me, Mass, Conn, NY, NJ, Va, Ohio, Ill.

B. arvalis Fitch (*luteus* Lubb.). Rochester, Jl, *Hd*; Macedon, Je, *Hd*; **LI:** Sea Cliff, *Bks*. Common in fields and gardens. Generally distributed: Europe; Canada; Mass, NY, Ohio, Mont.

B. spinata MacG. Ithaca (MacG); Cinnamon L., Jl, *Wlf*; **LI:** Sea Cliff, *Bks*. Adapted to live on the surface of water. Generally distributed: Mass, NY.

SMINTHURUS Latreille [2]

S. minutus MacG. Ithaca, *RHPettit* (MacG). Generally distributed: Mass, RI, NY.

S. quadrimaculatus Ryder. Ithaca, Jl 20, 1889 (MacG). Generally distributed: NY, Ill.

S. clavatus Bks. **LI:** Sea Cliff (*Bks*). Generally distributed: NY.

S. macgillivrayi Bks. **LI:** Roslyn, *Bks*. Generally distributed: NY.

S. nigripes Bks. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

S. sylvestris Bks. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

S. argenteornatus Bks. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

S. argenteornatus var. **albescens** Bks. **LI:** Sea Cliff (Bks). Generally distributed: NY.

S. dorsalis Bks. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

S. fraternus Bks. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

SUBFAMILY DICYRTOMINAE

PTENOTHRIX Börner

P. unicolor Harv. Ithaca, Jl (MacG); Howard, Jl, *Cy*; Ballston L., Aug, *Wlf*; Voorheesville, Aug, *Bish*; Nassau L., Sep, *Wlf*; White Plains, Sep, *Leon*; **LI:** Sea Cliff, *Bks*; Great Pond, Riverhead, May, *Bish*. Common under damp logs. Generally distributed: Me, Mass, NY, Ohio, Ill, Minn.

P. purpurescens MacG. **LI:** Sea Cliff, *Bks*. Generally distributed: NY.

P. marmoratus Pck. Cinnamon L., Jl, *Wlf*; Ithaca, Jl (MacG); McLean, Je, *Cy*; Howard, Jl, *Cy*; **LI:** Sea Cliff, *Bks*.

ORDER ORTHOPTERA

Compiled by WILLIAM T. DAVIS

The present list is no doubt fairly complete as far as the distribution of species on Staten Island and Long Island is concerned, but is quite the reverse for the remainder of the State, much of which appears never to have been visited by an entomologist with the object of collecting Orthoptera. The species of this order are most numerous in the southern part of the State, with the northernmost extension of several of them along the coast terminating on Staten Island or Long Island. Probably most of these will not be found in any other part of the State. Among crickets, for example, there are at least six species that are no doubt confined to these islands.

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[2] Here used in the broad sense (Fols).

A total of 136 species are recorded in this list, whereas Morse records 126 for New England, including 8 species of adventive cockroaches found but rarely. On the other hand, New Jersey, adjoining New York on the south, has an orthopterous fauna of about 150 species.

Taken together, Staten Island and Long Island have 112 species, and 24 species are recorded as not occurring on these islands. These species are usually of more northern range. A collector will discover that some of the species mature earlier on Staten Island than on the eastern part of Long Island.

The sequence of the families follows closely that of Morse's *Manual of the Orthoptera of New England* (1920), which is nearly that of Westwood (1839). In Morse's book, or in the very useful *Orthoptera of Northeastern America,* by Dr. W. S. Blatchley (1920), which covers a much wider area, the species here mentioned are all treated in detail, excepting three which have been recently described. Dr. Blatchley's book, moreover, contains a useful bibliography of the writings of Scudder, Rehn and Hebard, Caudell, and other authors who have mentioned the Orthoptera of the State of New York.

FAMILY **BLATTIDAE**[3]: COCKROACHES

BLATTELLA Caudell

B. germanica L. CROTON BUG. The adult of this common introduced household insect is most common in early summer, but in warm kitchens and among warm water pipes it may be found at almost any season. It is generally distributed in such situations throughout the State.

PARCOBLATTA Hebard[4]

P. virginica Brunner (*borealis* Brunner). Ardsley-on-Hudson, Je, *Winters*; West Pt., Je, Sep 2, three females; Pine I., Je; Rochester, Jl, *Deveson*; Coy Glen, Je 3, a male and its nymphal skin found under stone; Conesus L., Je 23; **SI:** adults, Je–Sep, females with their egg-capsules, Je–Jl; **LI:** Wyandanch, Jl; Coram, Aug; Selden, Aug; Yaphank, Je–Sep, Jl 13, a female with oötheca; Wading R., Je–Jl, Je 27, a female with oötheca, Je 27, 28, males on Pyrus bush, feeding on honeydew of aphids; Riverhead, Jl–Aug; Gardiners I., Je, Aug. The females are much longer-lived than the males.

P. uhleriana Sauss. West Pt., Je; Ithaca, May (CU); **SI:** adults Je–Sep (females live the longer); Clove Val., Jl 15, a female with oötheca; **LI:** Wyandanch, Jl; Half Way Hollow Hills, Jl 3, a female with oötheca; Coram, Aug; Selden, Aug 31, six females; Yaphank, Jl, Aug–Sep; Wading R., May–Jl, Je 27, a

[3] In *The Blattidae of North America,* Hebard records *Eurycotis caraibea* (Bol.), *Leucophaea maderae* (Fab.), and *Blaberus discoidalis* Serv., as adventive species found within the limits of the State, and Professor Morse mentions still others as having been introduced into New England. None of these insects, however, are likely to become established.

[4] Species of this genus come at night to sugar bait spread on the trunks of trees and elsewhere.

male on Pyrus bush, feeding at night on honeydew of aphids, Jl 14, one male; Riverhead, Jl; Orient, Je; Gardiners I., Je.

The nymphs of this and other Parcoblattae pass the winter under dead leaves and litter in the woods, and mature the following spring.

P. caudelli Hebard.[5] **LI:** Selden, Aug 31, six females; Yaphank, Jl–Sep, Jl, females with oötheca, Jl 8, six males; Wading R., Je 27 and 28, males on Pyrus bush feeding on honeydew of aphids.

P. pennsylvanica DeG. Bronx Pk., NYC; West Pt., Je; Hudson, *Morse* (Rehn & Hebard); Ithaca, May–Jl (CU); Portageville, Je; Conesus Lake, Je; Lewiston, Jl, *Wat*; Rochester, *Deveson*; Thousand Isls., two males; **SI:** adults, under loose bark, etc., Je–Aug.

The males are especially active and are often hard to capture.

BLATTA Linnaeus

B. orientalis L. Generally distributed over the State. While in very warm houses this introduced species may be found at any time of year, in the average dwelling, which is cool in winter, it has decided seasons, and mature individuals are most common in the late spring and in summer. Hebard states that as its appearance is coincident with the arrival of the shad in the Delaware River, it is locally known as the "shad roach." While the females cannot fly, they are excellent runners, and on **SI** are sometimes found under stones, etc., far from any dwellings. None, however, appear to survive the winter as far north as NY State, unless they are protected artificially by man.

PERIPLANETA Burmeister

P. americana L. As far north as NY this American species requires even more protection in order to survive the winter than does *Blatta orientalis,* and for that reason it is found in but few detached dwellings. In greenhouses, hotels, and any large buildings that are kept warm, it finds more congenial surroundings and multiplies accordingly. It is very common in the reptile house, Bronx Pk., where it is trapped as living food for lizards, etc. As it is found on shipboard, it also gets into the sea, and so occasionally is washed ashore on **SI** and **LI.** Rochester, *Deveson,* is the most northern record for the State.

P. australasiae Fab. A nymph of this introduced species was found in the greenhouse, Prospect Pk., Brooklyn, Jan. 5, 1907, and no doubt it occurs in many such places. It is very common in parts of the Southern States. Ithaca, Aug 24, 1894, a female with its egg capsule (CU).

PYCNOCELUS Scudder

P. surinamensis L. This species is very common in parts of the Southern States and has been introduced in the reptile house, Bronx Pk. It is reported also from several localities in New England. The many N. A. specimens thus far found have been females, with the exception of a single male collected in the reptile house, Jan 12, 1914.

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[5] The compiler has discovered that the females of *caudelli,* contrary to the description of the species, have short tegmina, and closely resemble the same sex in *fulvescens* Sauss. & Zehnt.; so the published Long Island records of *fulvescens* must appear under *caudelli.*

PANCHLORA Burmeister

P. cubensis Sauss. This beautiful green roach is adventive from tropical America and is usually introduced in bunches of bananas. It is an out-of-door roach and cannot establish itself as far north as NY State. It has been brought to **SI** in March, Aug, and Dec; all these four specimens were females. In the Brooklyn Museum there is a female taken in that city in a bunch of bananas, Jan, 1912. Other records are Albany, Mar (US), and Rochester, Ap, *Deveson.*

CRYPTOCERCUS Scudder

C. punctulatus Scud. This wingless shining black or brownish black roach, occurring in decayed moist logs in thick woods, is found from southwestern NY to northern Ga. It is found also along the Pacific coast. NY, one juvenile paratype (MCZ).

FAMILY **MANTIDAE**[6]: PRAYING MANTES, SOOTHSAYERS

MANTIS Linnaeus

M. religiosa L. Introduced from the Old World. Rochester, Charlotte, Summerville, 1899, *HFAtwood,* reported in Ent. News, Dec, 1899, by M. V. Slingerland. Apparently now well established about Rochester and Ithaca. Will probably spread slowly.

PARATENODERA Rehn

P. sinensis Sauss. An Asiatic species, first introduced about 1896 at Meehan's Nursery, Germantown, Pa. It was brought to **SI** in 1902 and is now abundant in several places. It prefers dry hillsides with cat brier and other tangle. As the insect is beneficial, efforts have been made to establish it elsewhere near NYC.

FAMILY **PHASMIDAE:** WALKING STICKS

DIAPHEROMERA Gray

D. femorata Say. Yonkers, *Bno & Farley*; Ramapo, Oct; West Pt.; Ft. Montgomery, Aug, *Schott*; Monroe, Oct; Milton, Sep, *Joutel*; Minnewaska, Aug–Sep, *Nic*; Allaban, Catskills, Aug, *Dow*; Stuyvesant Falls (NYS); Albany, Jl, Oct (NYS); Keeseville, *Lg*; Ithaca, Sep (CU); Watertown, Oct (NYS); Rochester, *Deveson*; Niagara Falls, the type locality (Say). This species is particularly fond of hazel, chestnut, linden, and some oaks. Not reported from SI, but occurs on **LI:** Orient, 1922, *Lath*; Shelter I. Elsewhere in the State it appears to be generally distributed, usually occurring in young trees and on bushes.

MANOMERA Rehn and Hebard

M. blatchleyi atlantica Ds. **SI** is the type locality of this race, or, more likely, distinct species. It is generally distributed over **LI**, mature individuals being found from Jl 30 to Oct 1. Often on *Solidago rugosa* as well as other goldenrods and associated plants growing in damp meadows.

The only other locality in the State thus far reported is Crotona Pk., Bronx, NYC, Oct 9, *Wat.*

No males are known; females collected from Conn to Va.

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[6] *Adventive species.* In addition to *Stagmomantis carolina* (L.), which has occasionally been brought to N. Y. from the Southern States, *Gonatista phyryganoides* (*grisea* Fab.) and *Phyllorates chlorophaea* (Blanch.) are reported by Scudder in his *Orthoptera of North America* (1868), from N. Y. The type of *chlorophaea* came from Watertown, but, like *grisea,* is a southern species. A specimen of *Thesprotia graminis* (Scud.), collection US, is stated by Caudell (Proc. U. S. Nat. Mus., 1913) to be labeled "N. Y." It too is a southern species.

FAMILY **TETTIGONIIDAE**: KATYDIDS, and their kin

SCUDDERIA Stål

S. septentrionalis Serville. **LI:** Yaphank, Jl 24, 1908 (two flew to light), Jl, 1909; Riverhead, Aug, 1917; Greenport, Aug 3, 1913, at light; Wading R., Jl, 1914.

S. pistillata Brunner. Callicoon, Jl 26; Onteora Mt., Aug, *How*; E Jewett, Aug, *Ds*; Saranac, *Ndm* (NYS); Keene Val., Aug–Sep, *Not*; Chateaugay L., *Bowditch*; Mountain View, Franklin Co, Sep, *Not*; Waddington, Aug, *Woodr*; Ithaca (Morse); Batavia, Jl, *Kngt*. A northern form.

S. curvicauda curvicauda DeG. Yonkers, Aug, *ERCasey*; L. Mahopac, *TDO'Connor* (Rehn & Hebard, Trans. Am. Ent. Soc., 1914); Waddington, Aug, *Woodr*; Batavia, Aug, *Kngt*. **SI:** Tottenville, Jl 23, 1914, and Jl 26, 1922. **LI:** Coram, Aug–Sep, common on sandy area; Smithtown, Aug; Wading R., Aug; Yaphank, Jl–Aug; Riverhead, Aug; E. Quogue, Aug; Amagansett, Aug.

As this insect is found in northern New England, it probably has a wider distribution in the State than is here recorded.

S. texensis Sauss. & Pict. Bronxville, Sep, *Woodr*; Ithaca, Jl-Sep (CU); Geneva, Aug, *Sherm* (Hubbell). **SI:** Generally distributed; mature individuals Jl–Oct; occasionally attracted to light. **LI:** Brooklyn, Sep, *Zab*; Coney I., Sep, *Zab*; Rockaway, Sep, Oct, *Ds* & *Ols*; Fire I., Sep; Maspeth, Sep; Selden, Aug; Wading R., Aug; Patchogue, Sep; Riverhead, Aug; Amagansett, Sep; Montauk, Sep.

As this species has been recorded from the New England States, it is probably to be found more extensively in NY than is here recorded.

S. furcata Brunner. Van Cort. Pk., Aug; Mt. Vernon, *Fitch*; Bronxville, Aug; White Plains, Sep, *Leon*; W. Nyack, Aug; West Pt., Sep, Oct; Sullivan Co, Sep; Pine I., Sep, *Brb*; L. Minnewaska, Sep, *Nic*; L. Mahopac, *TDO'Connor* (Rehn & Hebard); W. Hebron, Sep, *Lg*; Ithaca, Jl–Aug, Oct (CU); Otto (CU); Elmira, Sep, common, *Diven*; Batavia, Aug–Sep, *Kngt*; Rochester, *Deveson*. **SI:** Common and generally distributed; mature individuals Jl–Oct. **LI:** Brooklyn, Aug–Sep, *Zab*; Aqueduct, Sep; Maspeth, *Ols*; Flushing, Aug; Oyster Bay, Aug; Selden, Aug; Coram, Aug–Sep; Yaphank, Jl–Sep; Southold, Sep; Bay Shore, Aug–Sep, *Ols*; Patchogue, Sep; Amagansett, Sep; Promised Land, Sep; Gardiners I., Aug.

The black-striped variety *fasciata* Bt., is found in the northern part of the State, but not on SI.

AMBLYCORYPHA Stål

A. oblongifolia DeG. Bronx Pk., Mosholu, Sep, Mt. Vernon, Dunwoodie, Aug, *ERCasey*, L. Mahopac, Aug, *TDO'Connor* (Rehn & Hebard, Trans. Am. Ent. Soc., 1914); W. Nyack, Jl; Coeymans, *EBSmith* (NYS); Clifton Sps., Aug (CU). **SI:** Generally distributed; mature individuals Jl–Oct. Numerous examples of the pink variety have been found, particularly at W. New Brighton and in the Clove Valley. Brown individuals also have been collected. **LI:** Brooklyn, Aug–Sep; Aqueduct, Oct; Woodhaven, Aug; Maspeth, Aug–Sep; Flushing, Aug, *Bell*; Sands Pt., Sep, *Burns*; Wyandanch, Aug; Wading R., Jl; Yaphank, Jl, Sep; Riverhead, Aug; Southold, Sep; Amagansett, Sep; Montauk, Sep.

A. floridana carinata Rehn & Hebard. **LI:** During a week spent on Gardiners I. in Aug, 1918, two males, three females, and a nymph were collected. The species is not uncommon in parts of the two forested regions of the island, namely the Great Forest and the Tobacco Lot Forest.

Recorded also from Nantucket and Woods Hole, Mass, but more common southward.

A. rotundifolia Scud. Bronx, Sep, *Ang*; Ft. Montgomery, Aug, *Schott*; Marlboro, Sep (Bklyn Mus.–Rehn & Hebard, Trans. Am. Ent. Soc., 1914); Ithaca, Jl–Aug, Oct (CU); Rochester, *Deveson*. **SI:** Generally distributed, and found from late Jl until frost; latest date Oct 11, 1903; not so plentiful as *oblongifolia*. **LI:** Brooklyn, Aug, *Zab*; Pinelawn, Aug; Coram, Sep; Smithtown, Aug; Wading R., Jl; Yaphank, Jl–Aug; Calverton, Sep; Amagansett, Sep; Southold, Sep; Orient, Oct 30, *Lath*.

MICROCENTRUM Scudder

M. rhombifolium Sauss. Blauvelt, *SBHusted*. **SI:** Generally distributed. **LI:** Prospect Pk., Brooklyn, Sep; Maspeth, Sep; apparently the species is not found on the eastern part of the island.

Often found in wooded situations and on the wayside trees of well-shaded roads. It is more likely to be found in maple trees than is the true katydid, and lays its eggs on many species of plants. As the season advances, it, like *Pterophylla camellifolia,* often sings when the sun is shining brightly.

PTEROPHYLLA Kirby

P. camellifolia Fab. Yonkers, *EMWalker*; West Pt., Sept–Oct, *Robn*; Milton, Sep, *Joutel*; Stuyvesant Falls, Coeymans (NYS); Dansville, Sep (CU); Niagara (*EMWalker* in Can. Ent. 36: 330, 1904). **SI:** Once common, but now restricted, so far as known, to a small colony near the Moravian Cemetery, located in 1921 by Miss Miriam Campbell. An early record for the song is July 30 (1908), and the latest date is November 2 (1882). The insects stop singing when the thermometer falls to about 50° (Journ. N. Y. Ent. Soc., Mar, 1922). **LI:** In Journ. N. Y. Ent. Soc., Sept, 1902, p. 174, is the statement by Zabriskie that this species was common some twenty-five years ago about his home in Brooklyn, but in recent years he had not seen nor heard a single one. Away from NYC it is generally distributed and often very common—Jamaica; Center I., Oyster Bay; Selden, laying eggs in bark of locust, Sep 18; Bellport, Aug, *Nic*; Yaphank, Oct 1, common, five females laying eggs in the bark of pitch pines; Calverton, Sep, laying eggs in pine bark; Amagansett, Sep; Gardiners I., Aug; Wading R., Aug 6; Southold, Sep; Greenport, Aug 2, one singing; Orient, Nov 1, *Lath*.

NEOCONOCEPHALUS Karney

N. exiliscanorus Ds. **SI:** The type locality for this species is **SI,** where it was found on the edge of the salt meadows near New Dorp. It has also been found in many other parts of the island, including Clove Valley, Jl–Sep. **LI:** New Utrecht; Brooklyn, Aug, many in cattail swamp; Woodhaven, Aug; Maspeth, Sep 12, numerous, one male of the brown variety; Flushing, Aug.

N. lyristes Rehn & Hebard. **SI:** Found in numerous localities along the edge of the salt meadows at Watchogue and Long Neck in Aug–Oct, but not inland; sometimes seen eating grass seeds. The brown form is darker-colored in this species than in any other native Neoconocephalus. **LI:** Woodhaven, Aug; Aqueduct, Oct; Bellport, Aug, *Nic*; Smith's Pt., Oct, *Eng*; Promised Land, Sep; Southold, Sep.

N. ensiger Harr. White Plains, Sep, *RFHussey*; Ramapo, Jl; Callicoon, Jl; Oliverea, Sep; Oxford, *SSHall* (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Ithaca, Aug–Sep (CU); Clifton Sps. (CU); Rochester, Sep, *Deveson*. **SI:** Generally distributed, Jl–Oct. Brown individuals occasional. Sometimes sings in broad day when the sun is shining, but not so frequently as the other Neoconocephali. **LI:** Generally distributed; Brooklyn; Maspeth; Flushing; Aqueduct; Central Pk.; Selden; Southold; Greenport; Orient; Yaphank; Amagansett; Montauk; Gardiners I., Aug–Sep.

N. robustus Scud. Hoffman I., NY Harbor, Sep 2, 1920, *FMGaige* (Hubbell). **SI:** Found in many localities, but especially on sandy ground near the border of the salt meadows and along the up-beach at New Dorp, Oakwood, etc., Jl–Sep. Brown individuals are numerous. This species will sometimes sing from ten to fifteen minutes without a stop. **LI:** Brooklyn; Woodhaven; Aqueduct; Coney I.; Rockaway; Long Beach; Fire I.; Maspeth; Central Pk.; Selden; Coram; Wading R.; Southold; Greenport; Riverhead; Yaphank; Bellport; Calverton; Amagansett; Promised Land; Montauk; Gardiners I., Aug–Sep.

N. retusus Scud. Manhattan I., Nov; Van Cort. Pk.; Bronx, Sep; Yonkers, Oct, *HAAllard* (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); White Plains, Sep, *RFHussey*. **SI:** Generally distributed, and sometimes attracted to light, Aug–Nov. Heard singing as late as Nov 9. Will occasionally sing for more than half an hour without intermission. **LI:** Woodhaven; Aqueduct; Rockaway Beach, *Schott*; Maspeth, *Ols*; Sands Pt., Sep, *Burns*; Orient, *Schott*; Yaphank; Montauk, Aug–Oct.

ORCHELIMUM Serville

O. vulgare Harr. Inwood, Manhattan I., Sep; Van Cort. Pk.; Bronx, Sep; White Plains, Sep, *Leon*; Ramapo, Jl; Sullivan Co; Wilmington, Jl; Berkshire (Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Ithaca, Sep (CU); Elmira, Aug, *Diven*; Silver Creek, Sep, *Leon*; Geneva, Aug, *HBSherman*; Batavia, Sep, *Kngt*. **SI:** Generally distributed, Jl–Oct (Oct 25 is the latest date). Females found laying eggs in pigweed (Chenopodium) Sep 28, and in an old fence rail Sep 15. Several of the long-winged form collected. Sings both by day and by night. **LI:** Generally distributed from Brooklyn to Montauk and Orient Pt., Jl–Sep; Shelter I., Aug; Gardiners I., Aug.

O. gladiator Bruner. Ithaca, Jl–Aug (CU); Batavia, Jl–Sep, *Kngt*.

O. minor Bruner. **LI:** Yaphank, Oct 17, 1913, a female, *Eng*. A pine-tree species, more common among the pine trees of NJ and southward.

O. concinnum Scud. **SI:** Found in many places on the salt meadow and along its margin, Jl–Sep. Song much like that of *vulgare*, only lower. **LI:** Brooklyn; Aqueduct; Rockaway; Fire I.; Sands Pt., Sep, *Bs*; Wading R.; Orient, *Lath*; Wading R., Aug; Montauk, Aug–Sep. On Gardiners I., in Aug, 1918, it was found only in a single meadow bordering Bostwick Cr., where four males and three females were collected. On Aug 19, 1919, two females of this species were seen to dive into a pool of fresh water near the Peconic R., Riverhead, and one of them remained beneath the surface for one and a half minutes, the other not so long.

O. fidicinium Rehn & Hebard. **SI:** On the salt meadow near Oakwood and Old Place, Aug–Sep. Lives in colonies. **LI:** Rockaway, *Woodr*; Wading R., Aug 29, 1922, a female captured by the wasp *Tachytes mandibularis* — wasp and grasshopper on the road, *Bird* & *Ds*.

[*O. nigripes* Scud. has been found in southern Ontario and in Ohio, and therefore it may occur in the western part of New York State.]

CONOCEPHALUS Thunberg

C. fasciatus DeG. Rye, Oct; W. Nyack, Aug; West Pt., Sep; Callicoon, Jl; Keene Val., Aug–Sep, *Not*; Saranac Inn, *Ndm*; Lowville; Ithaca, Aug–Oct (CU); Batavia, Aug–Sep, *Kngt*. In addition, Rehn and Hebard (1915) report it from Chateaugay L., Aug–Sep, *Scudder*; Clifton Sps. (CU); Cattaraugus, Sep (CU). **SI:** Generally distributed and found both along the margin of the salt meadow and inland, Jl–Oct. **LI:** Found from Brooklyn to Montauk and Orient on the salt meadow and inland, Jl–Sep; Gardiners I., Aug, 1918.

C. brevipennis Scud. White Plains, Sep; W. Nyack, Aug–Sep; Ft. Montgomery, Sep, *Schott*; West Pt., Sep; Debruce, Sep; Onteora Mt., *How*; Oliverea, Sep; E. Jewett, Aug; Lowville; Ithaca, Aug–Oct (CU); Geneva, Aug, *HBSherman*; Batavia, Aug–Sep, *Kngt*; Chatham, Aug (Morse); Niverville, Aug (Morse). **SI:** Common both on the salt meadows and inland, Aug–Nov. Found as late as Nov 17 in 1888. Has a very faint little song, not to be heard unless one's ear is very close to the singer. As with other Orthoptera, this species eats and sings at the same time. **LI:** Found from Brooklyn to Montauk and Orient, Jl–Sep. Some of the inland localities are Selden, Pinelawn, and Yaphank; Gardiners I., Aug.

[*C. nemoralis* Scud. "Eastern slope of the Palisades" (Bt). While taken on the NJ side of the state line, it probably extends into Rockland Co, NY.]

C. strictus Scud. **SI:** With the clearing of the wooded areas of the island and the consequent drying of the soil, the beard-grass, Andropogon, has become generally distributed and with it this grasshopper. It was first observed at Arrochar, Oct 1, 1904, by *Woodr*. Both long- and short-winged examples are found, but those having wings of intermediate length are rare. **LI:** Central Pk., Aug.

C. nigropleurum Bruner. Ithaca (CU & Morse Coll. acc. to Rehn & Hebard, Trans. Am. Ent. Soc., 1915); Junius, Aug; Rochester, *Deveson*; Batavia, Aug–Sep, *Kngt*.

C. attenuatus Scud. Ithaca, Oct 27, 1912, two males, three females (CU–Rehn & Hebard, Trans. Am. Ent. Soc., 1915). One female from same locality, Jl 28, 1906, in collection of Zool. Mus., Univ. of Mich.

C. nigropleuroides H. Fox. **SI:** On the salt meadows, Oakwood, Sep 14, 1914, *Ds*; Old Place, Sep 8, 1920, *HHJohnson*. **LI:** Wading R., Aug, in salt meadows, and at Long Pond.

C. spartinae H. Fox. **SI:** Abundant and generally distributed on the salt meadows, Old Place, Watchogue, Tottenville, Jl–Sep. Long-winged form sometimes attracted to lights at a distance from the meadows. **LI:** Rockaway, Sep; Montauk, Aug; Bergen Beach, *Dow*; Sands Pt., Sep–Oct, *Bs*; Sea Cliff, Aug, *Ols*; Gardiners I., Aug 23, 1918, a female nymph.

C. saltans Scud. White Plains, Sep; **LI:** East Meadow, Central Pk., Sep 8, 1911. This insect may be either brownish or green in color, and there are occasional long-winged examples.

C. viridifrons Blatch. **LI:** Central Pk., Sep 8 (Ds). Also known from other localities outside the State.

ATLANTICUS Scudder

A. testaceus Scud. White Plains, Jl, *JMFarley*; Croton-on-Hudson; West Pt., Je–Sep, *Robn* & *Ds*. **SI:** On June 26, 1892, very common in a low wet field at Watchogue; found also in Oct. **LI:** Half Way Hollow Hills, Jl; Yaphank, Jl, *Eng*; Wading R., Je–Jl, on Jl 26, 1914, two males on bushes several feet from the ground and singing; Riverhead, Aug.

Most of the older records for this species are under the name *pachymerus* Burm.; the true *pachymerus,* however, according to Rehn and Hebard, is a more southern species.

A. davisi Rehn and Hebard. The following is from Rehn and Hebard's revision of Atlanticus (Trans. Am. Ent. Soc., 1916): Ithaca, Jl, Aug, *OEPearce & Comstock*); Sullivan Co, *Ds*; E. Jewett, Aug, *Ds*; Catskills, Sep, *CnJr*; L. George, Aug, *Zab.* To the above may be added Mt. Whiteface, Jl, 1914, numerous specimens nearly fully-grown. In parts of Pa and Va, this is a common species.

A. americanus Sauss. Ft. Montgomery, Oct 2, *Schott*; West Pt., Je, nymphs; Peekskill, Sep. **SI:** Generally distributed in the wooded areas. Nymphs in Jl and adults in Aug–Oct. **LI:** Floral Pk., Jl, *HThurston*; Half Way Hollow Hills; Wyandanch, Aug; Wading R., Jl; Yaphank, Aug–Sep; Patchogue, Sep; E. Quogue, Aug.

Most of the older records for this species are under the name *dorsalis* Burm.; the true *dorsalis,* however, according to Rehn and Hebard, is a more southern form.

CEUTHOPHILUS Scudder

C. nigricans Scud. E. Jewett, Aug; Mt. Whiteface, Jl; Chateaugay L., *Scud* (Rehn and Hebard, Proc. Acad. Nat. Sci. Phila., 1916, p. 275–276); Onondaga Co, Ap 9, 1922 (Hubbell); Rochester, Jl, *Deveson.* **LI:** Yaphank, Sep.

Blatchley considers *C. neglectus* Scud., described from Ithaca, the same as *nigricans,* which has page priority.

C. maculatus Harr. In his paper on *The North American Ceuthophili* (Proc. Am. Acad. Arts and Sci., 1894), Scudder gives the following NY localities: Chateaugay L., *F.C.Bowditch*; Ithaca (CU); reported also from Howe Cave, *Pck*; Onteora Mt., Jl 29, 1901, *How* (Caudell); Rochester, Aug–Sep, *Deveson.*

C. davisi Blatch. **SI,** Jl–Aug. Davis states that he has taken specimens on numerous occasions in the forested parts of SI by baiting tin cans with molasses and fusel oil (Blatchley, *Orthoptera of Northeastern America,* p. 625). SI is the type locality, and specimens have been found in Clove Valley, in Reed's Valley, and near the Moravian Cemetery.

C. rehebi Blatch. Crotona Pk., Bronx, NYC, Sep 24, 1899, *Wat*; Nyack, Je; Ramapo, Oct. **SI:** Generally distributed in the forested area, on sandy ground, and collected in molasses traps, Je, Jl, Sep. **LI:** Woodhaven, Aug; Selden, Aug 30–31, 1916, many on sandy roads, etc., and collected with a lantern at night; Coram, Aug–Sep; Yaphank, Jl–Oct; Amagansett, Sep; Orient, Sep, *Lath.*

This is the species treated by Rehn and Hebard, 1916, as *C. spinosus* Scud. Blatchley, in his *Orthoptera of Northeastern America* (1920), identifies as the true *spinosus* specimens from Ga and Fla.

C. uhleri Scud. **SI:** Richmond, Aug, 1911, a female. A specimen sent to Scudder in 1894 was identified as *uhleri.*

Found in the "Middle States," according to Scudder, 1894.

C. latens Scud. Summit of Hook Mt., Nyack, Nov 26, 1916, *Schott*; Allaben, Catskills, Aug, *Dow*; Genesee Co, Je 24, 1916, nymph. "Ithaca and Enfield Falls, (Morse, CU)," *see* Scudder, 1894.

C. caecus Scud. **SI:** Richmond, Clove Val., Je, Aug, two males and one female.

C. lapidicola Burm. Saranac L., Sep; Oliverea, Sep, 1918, males and females at sugar bait; Taughannock, Oct. This species is reported from Conn (Walden), Mass (Morse), and Ontario as *pallidipes* (Walker), but it seems to be but poorly understood. *C. pallidipes* may be a northern race of *C. lapidicola.*

C. gracilipes Hald. Manhattan I., near Inwood, Sep 9, 1905, and Oct 3, 1908, numerous; Bronxville, Aug; Rye, Oct 12, 1917, a female under bark of dead tree; Ardsley, Je, under bark, *Winters*; Croton, Jl; Peekskill, Aug, *Bs*; Bear Mt, Aug, *Schott*; West Pt., Jl; L. Mahopac, Jl 20, 1903, two juvenile females, *HFox*; Oliverea, Sep, many at sugar bait; Caywood, Seneca Co, Jl; Geneva, Aug; Ithaca, *Comst* (Scudd); Rock City, Je 6, 1915, a female at sugar bait, Je 10–11, two males; Rochester, Deveson. **SI:** Ft. Wadsworth, Sep 23, 1924, found about the foundation of an old house, nymphs, Ap, 1925. **LI:** Gardiners I., Je 14, 1911 (two males), Aug, 1918 (six males and three females).

C. terrestris Scud. Adirondacks, Saranac L., Sep; Ithaca, Aug 19, 1885 (Hebard); Batavia, Aug 31, 1913, two males, one female, *Kngt*.

[*C. stygius* Scudd. and some other species of Ceuthophilus that have been reported from adjoining or near-by States, doubtless occur in NY.]

FAMILY **GRYLLIDAE**: CRICKETS

GRYLLUS Linnaeus

G. assimilis Fab. **SI:** Immature individuals of the form *pennsylvanicus* Burm. live over winter under stones, etc., and mature in early May, when the males may be heard singing. The ovipositor in this form is short. The form *luctuosus* Serville appears about midsummer from eggs hatched in the spring, and survives until Nov. It has a long ovipositor. Long-winged examples of *assimilis* are often attracted by light. On Sep 26, 1908, a male and a female were seen eating a living *Arphia sulphurea*. They are more commonly vegetable feeders, perhaps from necessity.

LI: Form *pennsylvanicus* from Rockaway, Je; Half Way Hollow Hills, Jl; Nissequogue, Je; Orient, Je, *Lath*; Yaphank, Jl; Gardiners I., Je. Form *luctuosus* from Aqueduct, Hempstead, Fire I., Central Pk., Selden, Yaphank, Amagansett, Gardiners I., Cold Sp. Harb., Southold, Orient, Aug–Sep.

Away from the coast and at a greater altitude *assimilis* is smaller and darker-colored, and is represented by the form *neglectus* Scudd. Specimens have been examined as follows: West Pt.; Debruce; Callicoon; Oliverea; Keene Val., *Not*; Wilmington; Ithaca; W. Danby; Potter Swamp; Conesus L.; Portageville; near Olean.

G. domesticus L. West Farms (Akhurst, in Psyche, vol. 9, p. 293, 1902). **SI:** This introduced species is usually not common, but is occasionally met with in houses, where it is sometimes regarded as a nuisance. Where there is sufficient heat it may be heard singing in winter, the song being much more rapid than that of *assimilis*. The long-winged form is sometimes found about lights. **LI:** Brooklyn, taken on a sugared tree, Aug 19, 1916; Flatbush, Nov 25, 1909, found in a cellar, *Zab*; Yaphank, Jl, 1909, in a house.

MIOGRYLLUS Saussure

M. verticallis Serv. **SI**, Je 17, a fully grown female.

NEMOBIUS Serville

N. fasciatus DeG. (*vittatus* Harr., short-winged form). Manhattan I., Inwood, Oct; Van Cort. Pk.; Rye, Oct; W. Nyack, Aug; West Pt., Sep; Suffern, Sep; Debruce, Sep; E. Jewett, Aug; Oliverea, Sep; Adirondacks, Aug; Ithaca, Aug, Oct; Clyde; Batavia, Sep, *Kngt*; Rochester, Aug; Cattaraugus, Sep. **SI:** A common species of both upland and salt meadow. Mature individuals Jl–Nov. The long-winged form is often attracted by electric lights. **LI:**

Brooklyn; Aqueduct; Pinelawn; Rockaway; Fire I.; Cold Sp. Harb.; Oyster Bay; Wading R.; Southold; Orient; Selden; Coram; Yaphank; Riverhead; Calverton; Springs; Montauk; Gardiners I., Aug–Oct.

[*N. griseus* E. M. Walker has been reported from Toronto (Ontario), several of the New England States, and Indiana. It should be found in New York State.]

N. maculatus Blatch. **SI**, Sep 19, a male and a female, *Ds* (Hebard); **LI:** Flatbush, Sep 30, *Zab* (Hebard).

N. cubensis Sauss. **SI**, Aug 22, a female, *Ds* (Hebard).

N. palustris Blatch. White Plains, Sep, *Leon*; **LI:** Yaphank, Aug 26, 1916, rather abundant in an old cranberry bog, on raised places among the moss; Southold, Sep 4, 1912, a male and a female.

N. carolinus Scudd. Bronxville, Aug; West Pt., Sep; Suffern, Oct; Ramapo, Oct; Catskills, Sep; Ithaca, Oct; Olcott, Aug; **SI:** generally distributed, Jl–Nov; **LI:** Farmingdale, Oct; Pinelawn, Aug; Wading R., Sep; Springs, Sep.

OECANTHUS Serville

O. niveus DeG. SNOWY TREE CRICKET. Ramapo, Oct; West Pt., *Robn*; Middle Hope (NYS); Elmira, Sep, *Diven*; Ithaca, Jl–Aug (CU); Geneva; Rochester; Alfred; Otto (CU); Ripley (NYS); "It is found all over the State of New York with the exception of forested regions in the northeastern part (B. B. Fulton, 1915). **SI:** Generally distributed, and may be heard singing, especially in gardens among the grapevines, raspberry bushes, and fruit trees, from Jl until frost. It sings all night and continues when the temperature is rather low. **LI:** Generally distributed: Brooklyn; Maspeth; Flushing; Central Pk.; Sea Cliff; Long Beach; Smithtown; Wading R.; Greenport; Southold; Coram; Yaphank; Riverhead; Amagansett; Montauk; on Gardiners I. it is probably the most plentiful species of the genus, occurring often in the clumps of bayberry bushes.

O. angustipennis Fitch. Bronxville, Sep (Woodr); White Plains, Sep, *Leon*; W. Nyack, Sep; Ithaca, Aug (CU); Rochester, *Deveson*; common in the lake region of the western part of the State (B. B. Fulton, 1915); **SI:** common Aug–Oct, but more of a woodland species than *niveus*; **LI:** Prospect Pk.; Brooklyn; Maspeth, *Ols*; Fire I.; Central Pk.; Cold Sp. Harb.; Bay Shore, *Ols*; Selden; Coram; Yaphank; Riverhead; Promised Land; Calverton; Amagansett; Greenport; Southold; Orient, Nov 1, 1914, in orchard, *Lath*; Gardiners I., Aug.

O. exclamationis Ds. Bronxville, Aug–Oct (Woodr); **SI:** (type locality): Buck's Hollow, Sep; Long Neck, Aug–Sep; Watchogue, Aug; Eltingville, Sep; **LI:** Flushing; Kissena Pk., Aug; Central Pk., Aug–Sep; Cold Sp. Harb., Sep; Selden, Aug; Yaphank, Sep–Oct; Springs, Aug; Smithtown, Aug; Deep Pond, Wading R., Aug; Shelter I., Aug; Southold, Sep; Gardiners I., Aug.

O. nigricornis Wlk. Van Cort. Pk., Sep; White Plains, Sep, *Leon*, Var. *quadripunctatus* Beut.: Rye, Oct; Karner, Aug; Onteora Mt., Aug (How); Ithaca, Jl–Oct (CU); Rochester, *Deveson*; Otto (CU); Cattaraugus, Sep (CU). **SI:** Common on goldenrods, asters, and other low-growing plants along the edge of the salt meadows as well as inland, Aug–Oct; Huguenot, Oct 3, 1913, a male eating an aphid. Var. *quadripunctatus* Beut.: Watchogue; Long Neck; Tottenville. **LI:** Generally distributed, Aug–Oct: Queens; Maspeth; Flushing; Aqueduct; Rockaway; Long Beach; Fire I.; Pinelawn; Bay Shore, *Ols*; Coram, several on sugared trees; Yaphank; Patchogue; Southold; Orient, *Lath*. Var. *quadripunctatus* Beut.: Aqueduct; Rockaway; Long Beach; Fire

I.; Maspeth, *Ols*; Flushing; Queens; Central Pk.; Pinelawn; Selden; Yaphank; Amagansett; Montauk; Greenport; Southold; Shelter I.; Gardiners I., Aug.

This species is said by B. B. Fulton (1915) to be widely distributed over NY, and var. *quadripunctatus* to be found in most parts of the State with the exception of the northern forested area.

O. pini Beut. Karner, Jl–Sep (Felt, NYS). **SI:** As the pines on which this species occurs have nearly all disappeared from the island, its presence is hardly expected. **LI:** Fairly common in places among pitch pines; Central Pk., Aug; Pinelawn, Aug; Coram, Aug–Sep; Yaphank, Jl–Sep; Riverhead, Aug; Promised Land, Sep; Southold, near Great Pond, Sep.

O. latipennis Rly. **SI:** Once very common and still occasional on the low sandy ground near Old Place and Watchogue. Found on goldenrods, small white birches, etc., Aug–Oct. **LI:** Bay Shore, Oct, *Ols*; Calverton, Sep, 1910, two females.

NEOXABEA Kirby

N. bipunctata DeG. Van Cort. Pk., Aug 12; Ramapo Mts. (AM); Ft. Montgomery, *Schott*. **SI**, a few collected in Aug. **LI:** Flushing, Aug, *Bell*; Wyandanch, Sep, *Schott*; Yaphank, Jl, Sep, *Shoe*; Promised Land, Sep, *Ds*; Southampton, Aug, *Zab*; Amagansett, Sep; Wading R., Jl, nymph; Shelter I., Aug 3, nymph; Orient Pt., Jl, nymphs; Gardiners I., Aug.

The range of this species is more to the southward, and it probably does not occur in the northern part of the State.

CYCLOPTILUM Scudder

C. squamosum Scud. **LI:** E. Marion near Orient Bay, Aug 2, 1913, two well-grown nymphs under log, *Ds* & *Eng*.

ANAXIPHA Saussure

A. exigua Say. **SI:** Formerly not uncommon in rank vegetation bordering the salt marshes, Aug, Sep. In Aug and Sep, 1901, it was found in considerable numbers in the woods near Egbertville, but of late years no specimens have been collected on the island. **LI:** Maspeth, Flushing, *Ols*; Sea Cliff, Oct (AM), and 19 specimens, *Bks* (CU).

PHYLLOSCYRTUS Guérin

P. pulchellus Uhl. **SI:** once fairly abundant at Old Place and Watchogue, Jl–Oct, but none have been collected recently.

In Proc. Ent. Soc. Phila., vol. 2, p. 544, Uhler records this species as "taken near the city of New York."

HAPITHUS Uhler

H. agitator Uhl. **SI:** Ward's Pt.; Tottenville, a female, Sep 21, 1902. This is the only record. It is a common species on Sandy Hook, NJ. **LI:** Fire I., opposite Bay Shore, Aug, 1917, *Henry Thurston*.

GRYLLOTALPA Latreille

G. hexadactyla Perty (*borealis* Harr.). West Pt., Sep, *Robn*; Kingston, *Dr. C. W. Crispell* (Rept. NY State Ent., 1888); Albany, Oct (Lint-NYS); Honeoye Falls, Aug 26, nymph, *Deveson*. **SI:** Found in all rural places, in moist ground,

where it may be heard singing its *krerr, krerr, krerr* from late Jl until Oct. The long-winged form *columbia* Scud. is occasionally attracted to light. Rarely individuals are found running about on roads, etc., during the day. **LI:** Yaphank, Sep, four nymphs 5 mm. long, which would probably pass the winter in an immature state; Calverton, Sep; Amagansett, Sep; Gardiners I., Je 13, 1911, nymph, Aug 7, 1918.

[*G. gryllotalpa* L. EUROPEAN MOLE CRICKET. This imported insect has been reported from Rutherford, NJ, as well as from Mass, so it may be looked for in NY.]

TRIDACTYLUS Olivier

T. apicialis Say. Ithaca, Jl, *Pearce* (Scudd). **SI:** Old Place, Je, Sep, on damp ground. **LI:** Rockaway Beach, Je, *Eng*; Deep Pond, Wading R., May 31, mature individuals; Fort Pond, Montauk, Sep.

FAMILY **ACRIDIDAE**: SHORT-HORNED GRASSHOPPERS

TRYXALIS Fabricius

T. brevicornis L. **LI:** Ravenswood Swamp, Long Island City, collected many years ago (Bt).

PSEUDOPOMALA Morse

P. brachyptera Scud. **SI:** Watchogue, Sep 17, 1911, *Grossbeck*; Old Place, on salt meadow, Sep 8 and 13, 1920, two females, one caught in the web of a spider (H. H. Johnson). **LI:** Central Pk., Aug 13, 1913 (Fulton); Bay Shore, Jl, 1915, *Ols*; Orient, Jl 1, 1917, a nymph, on sandy beach, *Lath*; Cedar Beach on Gardiners I., Aug 28, 1918, often in clumps of stunted bayberry bushes.

ERITETTIX Bruner

E. simplex Scud. **LI:** Top of High Hill, West Hills, Je 21, 1917, a considerable colony; Yaphank, May 28, 1911, Jl 8, 1916, several in thick grass; Wading R., May 30, 1913, colony on hill near the great split rock in a one-time asparagus bed, neglected and overgrown; Bellport, Je 23, 1913, *Nic*.

CHLOEALTIS Harris

C. conspersa Harr. Bronxville, Jl–Sep. *Woodr*; Ft. Montgomery, Oct 20, *Schott*; Callicoon, Jl; E. Jewett, Aug; Mt. Whiteface, Jl; Ithaca, Jl–Aug (CU); Rochester, Jl, *Deveson*; Portageville, Je, three nymphs; Otto (CU). **SI**, from early Jl to the middle of Sep. On Sep 15, 1888, a female was found laying eggs in an old fence rail. The males stridulate while sitting on the ground. At one time not uncommon in Clove Valley, but of late years found principally on the low ground about Watchogue; Moravian Cemetery, Jl; near Egbertville, Jl 21, 1922, a male. **LI:** Half Way Hollow Hills, Jl; Wading R., Je–Aug, at both Deep Pond and Long Pond; Shelter I., Aug; Orient, Jl, *Lath*; Yaphank, Jl, Sep; Riverhead, Aug; Patchogue, Jl; Calverton, Sep; Montauk, Sep; Gardiners I., Jl–Aug.

ORPHULELLA Giglio-Tos

O. pelidna Burm. Van Cort. Pk., Bronx, Aug; White Plains, Sep; W. Nyack, Aug; E. Jewett, Aug; Ithaca, Jl–Aug (CU); Rochester, Jl, *Deveson*. **SI:** Generally distributed, Jl–Oct. One female at light, Jl 16, 1912. Occurs in both dry and moist situations, and is often common along the edge of the salt meadows. Males generally brownish, many green females, also some females

with elytra purplish. **LI:** A common species and found from Brooklyn to Orient and Montauk; also on Fire I. and Gardiners I. Jl–Sep. Sometimes found in very dry situations.

O. olivacea Morse. **SI:** Arrochar, Oakwood, Old Place, Watchogue, Jl–Sep. Often very common on the salt meadows. A long series does not contain any green males, which exist, however, though rare. The upper parts of the females may be of any shade between brown and green. **LI:** Ravenswood (Psyche, vol. 8, p. 318–Morse); Central Pk., Sep; Sands Pt., Sep, *Bs*; Orient, on salt meadow, Sep, *Lath*; Gardiners I., Aug 19, 1918, a male.

O. speciosa Scud. Van Cort. Pk., Aug; W. Nyack, Aug; Debruce, Sep; E. Jewett, Aug. **SI:** Generally distributed, but more of an upland species than either of the two last named, Aug–Sep. Many of the females are partly green in color. **LI:** Maspeth, Jl, *Ols*; Central Pk., Sep; Southold, Sep; Amagansett, Aug; Montauk, Sep; Gardiners I., Jl–Aug.

DICHROMORPHA Morse

D. viridis Scud. Bronxville, Aug–Oct (Woodr); Ramapo, Oct; W. Nyack, Sep; West Pt., Aug–Sep (Robn); Oliverea, Sep; Ithaca, Jl–Aug (CU). **SI:** A common species; mature individuals from Jl–Oct. Both sexes may be either green or brown. The female is usually short-winged, but one with long wings and tegmina was found on the sidewalk at St. George, Aug 16, 1908. **LI,** Jl–late fall: Rockaway; Aqueduct; Maspeth; Flushing; Central Pk.; Wyandanch; Half Way Hollow Hills; Pinelawn; Coram; Selden; Yaphank; Patchogue; Riverhead; Center I.; Smithtown; Wading R.; Greenport. At the last-named place Mr. Latham found it Nov 1, 1914, in woods.

CLINOCEPHALUS Morse

C. elegans Morse. **SI:** Usually found on or near the salt meadows; Oakwood, Aug; Ward's Pt., Tottenville, Sep; Watchogue, Sep; Price's Meadow I., Sep. A long-winged female was found on the sidewalk at St. George, Aug 27, 1914, and a male on the turnpike near Silver L. Pk., Oct 13, 1917. **LI:** The type came from Ravenswood (Bt) (Psyche, vol. 7, p. 402, 1896, and Proc. Acad. Nat. Sci. Phila., Mar, 1915, p. 99).

CHORTHIPPUS Fieber

C. curtipennis Harr. Bronxville, Aug–Sep, *Woodr*; Ft. Montgomery, Oct 20, *Schott*; West Pt., Aug–Sep, *Robn*; Debruce, Sep; Oliverea and Slide Mt., Sep, both long- and short-winged males and females; Onteora Mt., Oct (How); Wilmington, Jl; Ithaca, Jl–Aug, Oct (CU); Otto (CU); Rochester, Sep (Deveson). **SI:** Generally distributed, and found in low meadows; often occurring on the borders of the salt meadows. Jl–Oct, inclusive. The males stridulate while sitting on the ground. **LI:** Aqueduct, Sep; Rockaway, Jl, *Schott*; Maspeth, Aug, *Ols*; Flushing, Sep, *Bell*; Wading R., Aug–Sep; Riverhead, Aug, salt meadow.

STETHOPHYMA Fischer

S. lineatum Scud. Colden L., Aug; Essex Co, Jl (NYS); Ithaca, Jl–Aug (WC Thro–CU). **LI:** Not uncommon on the border of the salt meadow near the upper part of Wading R., Aug–Sep, 1922.

S. gracile Scud. Saranac L., Sep; Adirondacks, Aug (NYS).

S. platypterum Scud. White Plains, Aug, 1923 (JMFarley, Jr).

ARPHIA Stål

A. xanthoptera Burm. Bronxville, Aug–Oct, *Woodr*; W. Nyack, Aug; Ramapo Mts. **SI:** Generally distributed from St. George to Tottenville. A late-appearing species attaining full growth in Aug and continuing until Oct. Makes a crackling noise in flight. **LI:** Has been found all over the island in Aug–Sep. Maspeth, *Ols*; Central Pk., Aug 12, just matured; Cold Sp.; Smithtown; Selden; Coram; Yaphank; Southold; Orient, *Lath*; Amagansett; Springs; Montauk; Gardiners I.

A. sulphurea Fab. White Plains, Je–Jl; Ft. Montgomery, May; West Pt., Je; Croton, Jl; Oliverea, Je; Elmira, Je, *Diven*; Ithaca, May–Jl, also CU; Conesus L., Je; Rochester, Jl, *Deveson*. **SI:** Generally distributed. Arrives at maturity about the middle of May from over-wintering nymphs. A few survive until the first of Aug or a little later. **LI:** Generally distributed. Central Pk., Jl; Massapequa, May; West Hills, Je; Half Way Hollow Hills, Jl; Nissequoque, Je; Kings Pk., Je, *Bell*; Yaphank, Je–Jl, Sep 3 latest date; Riverhead, Aug; Wading R., May–Aug.

CHORTOPHAGA Saussure

C. viridifasciata DeG. Nyack, Je; Ft. Montgomery, May; West Pt., Je; Ramapo, Je; Pine I., Je; Albany (NYS); Axton (M&H); Mt. Whiteface, Wilmington, Je; Baldwinsville, Je (CU); Spencer, May (NYS); Elmira, Je, *Diven*; Ithaca, May–Jl (CU); Rock City, Je; Portageville, Je; Bergen, *GMGillette*; south shore of L. Ontario, Je. **SI:** Generally distributed, and overwinters in nymphal stages. Mature individuals from Ap–Nov; also nymphs on Nov 6. Found laying eggs May 17; pair mated Jl 23; recently matured Aug 27 and Sep 12. Crackles wings in flight. Males usually brown or brownish in color; females green, or brown and green. Occasionally a green male is found, and more frequently a brown female. Sometimes the pronotum is reddish and the general coloring very beautiful. **LI:** Generally distributed; adults from May-fall, and nymphs at any season. Rockaway Beach, in wash-up; Maspeth; Baldwin; Pinelawn; Wyandanch; Half Way Hollow Hills; Nissequogue; Wading R.; Yaphank; Orient, *Lath*; Riverhead; Gardiners I.

ENCOPTOLOPHUS Scudder

E. sordidus Burm. Inwood, Manhattan I., Sep, *Schott*; Rockland L., Oct; West Pt., *Robn*; Debruce, Sep; Albany (NYS); Oliverea, Sep; Essex Co (NYS); Whitehall, Washington Co, Oct (Not); Elmira, Aug, *Diven*; Ithaca, Aug–Sep (CU); Holcomb, Sep (Kngt); Batavia, Oct (Kngt). **SI:** Generally distributed. Matures in Aug and found as late as Nov 27 at Tottenville. Laying eggs in path, Ft. Wadsworth, Nov 6. Crackles its wings in flight. **LI:** Flatbush, Oct, *Zab*; Flushing, Oct, *Bell*; West Hills, Sep; Patchogue, Sep; Amagansett, Sep.

CAMNULA Stål

C. pellucida Scud. E. Jewett, Aug, common; Mt. Whiteface, Jl, common; Keene Val., Aug–Sep, *Not*; Saranac Inn, *Ndm*; Jay, Jl (WEBritton in Jour. Econ. Ent., 1911, p. 545); McLean, Aug, *Sib*; Ithaca, Aug (CU).

PARDALOPHORA Saussure

P. apiculata Harr. Bronxville, May, *Woodr*; Ramapo, May; Nyack, Je; Croton-on-Hudson, May; Albany, May–Je (NYS); Elmira, May, *Diven*; W. Danby, May; Ithaca, May; L. Keuka, Je. **SI:** This beautiful insect, with hind wings

partly red, used to be an ornament to the overgrown fields of the island, but it appears now to be extinct. The last one seen by the writer was a male at Dongan Hills, May, 1909. It passed the winter as a nymph and matured in the spring. A few survived until Jl. On May 27, 1900, a female was found laying eggs. **LI:** Queens, May, *Schott*; Jamaica, May; Pinelawn, Je; West Hills, Ap 17, 1915, an early date; Half Way Hollow Hills, May; Wyandanch, May, *Schott*; Nissequogue, Je; Baldwin, May; Bellport, Je, *Nic*; Coram; Wading R., May–Je; Yaphank, Je.

DISSOSTEIRA Scudder

D. carolina L. This species is not only found over the entire State of NY, but occurs over the greater part of the U.S. Some of the more northern and western state records are: Debruce, Sep; Callicoon, Jl; Oliverea, Sep; Keene Val., Aug–Sep, *Not*; Elmira, Je, Aug, *Diven*; Ithaca, Jl; Batavia, Jl–Aug, *Kngt*; Buffalo, Jl. **SI:** Generally distributed. Mature individuals found from Je–Nov. The males are the first to mature; some of the records are Je 20, 1885, Je 28, 1887, and Je 25, 1921. A male was found attracted by light Jl 9, 1912, and two Jl 16, 1912. They are often found dead on low bushes, etc., having been killed by the fungus Empusa. This is the "hovering grasshopper," the males sometimes poising in mid-air a few feet from the ground. Their hovering, however, is not sustained as in certain Diptera. **LI:** Generally distributed all over the island from Brooklyn to Orient, Montauk, and Gardiners I. Occurs in numbers even on the seashore, and in the Bulletin of the Brooklyn Ent. Soc., Ap, 1913, there is an account of "A Plague of Carolina Grasshoppers at Long Beach, L. I., in 1912." It is sometimes drowned in the ocean and washed ashore on Rockaway Beach.

SPHARAGEMON Scudder

S. bolli Scud. Van Cort. Pk., Aug; Callicoon, Jl; Debruce, Sep; Ellenville; E. Jewett, Aug; Ithaca, Jl–Aug (CU); McLean, Aug–Sep, *Sib*; Batavia, Jl, *Kngt*. **SI:** This woodland species is found from Je–Oct and is generally distributed. It crackles its wings in flight. A male was found attracted to light, Jl 16, 1912. **LI:** Aqueduct, Jl; Central Pk., Jl–Sep; Pinelawn, Aug–Sep; West Hills, Sep; Selden, Aug–Sep; Coram, Aug–Sep; Smithtown, Aug; Wading R., Aug; Southold, Sep; Yaphank, Jl–Sep; Bay Shore, Jl, *Ols*; Bellport, Aug (Nic); Patchogue, Sep; Riverhead, Aug; Calverton, Sep; Amagansett, Sep; Montauk, Aug.

S. saxatile Morse. Ramapo, Sep; W. Nyack, Aug; Ft. Montgomery, Jl; West Pt., Sep. Found on rocky areas, sometimes of small extent.

S. collare wyomingianum Thomas. **SI:** At one time well distributed on the sandy areas of the island from Richmond Valley to Mariners Harbor, but now much more restricted. It is an insect of overgrown sandy fields and open sandy woodland. It has been found plentiful at Richmond Valley in Sep, and near Western Ave., Mariners Harbor, in Aug, also Oct 9, Oct 15, and Nov 6. Other localities are Long Neck, Sandy Br., Woodrow, Bogardus Corners, Kreischerville, and Tottenville.

Professor Morse states that typical examples of *wyomingianum* occur on SI. It has not been found on LI.

S. collare scudderi Morse. **LI:** Central Pk., Jl–Sep, both to the north and to the south of the railroad track, and also on the undisturbed parts of Hempstead Plains; Montauk, on the grassy hills, also near Fresh Pond, Aug 26 and 27, 1917 (Eng, Ds); Gardiners I., very common on the grassy hills near the monument reading "Capt. Kidd's Treasure was buried in this hollow and

recovered in 1699." The reddish brown form of both males and females is much less common at Central Pk. and on Gardiners I. than dark fuscous examples.

SCIRTETICA Saussure

S. marmorata Harr. **SI:** Tottenville, Sep; Rossville, Aug; Sand Ridges, Richmond Valley, Sep; Watchogue, Sep–Oct. On Sep 20, 1919, three males and one female were collected near the corner of Hughes Ave. and Lambert's Lane, but this beautiful species seems now nearly extinct on the island. Both sexes crackle their wings in flight. **LI:** Generally distributed on the sandy parts of the island. Central Pk., Aug; Cold Sp. Harb., in a sandy field, Sep; Smithtown, Aug; Selden, Aug–Sep; Wading R., Aug; Yaphank, Jl, Sep; Patchogue, Sep; Riverhead, Aug; Calverton, Sep; Amagansett, Sep; Promised Land, Sep; Greenport, Aug; Shelter I., Aug; Orient, Aug, Nov, *Lath.*

PSINIDIA Stål

P. fenestralis Serville. **SI:** On sandy ground and on the up-beach of the seashore. Mature individuals from Jl–Oct. Arrochar; South Beach; Oakwood; Crooke's Pt.; Great Kills; Richmond Valley; Tottenville; Kreischerville; Rossville; Bogardus Corners; Price's I.; Long Neck; Watchogue. Irrespective of the sex, the central part of the hind wings may be red, yellow, or some intermediate color. **LI:** Generally distributed, and found wherever there are sandy areas. Jl–Oct. Aqueduct; Coney I.; Rockaway; Fire I.; Patchogue; Yaphank; Riverhead; Calverton; Amagansett; Springs; Montauk; Bayville; Cold Sp.; Center I., in Oyster Bay; Selden; Coram; Wading R.; Southold; Greenport; Shelter I.; Orient; Gardiners I.

TRIMEROTROPIS Stål

T. maritima Harr. **SI:** On the beach from the Fort at the Narrows to Tottenville. Mature individuals as early as Jl 1; they continue into Oct. On Jl 16, 1912, a female was found under an electric light at Egbertville, about one and a half miles from the beach or any other sandy area. **LI:** Generally distributed along the sandy beach on the south shore, and occasionally on sandy areas farther inland. Jl–Oct. Coney I.; Barren I.; Rockaway Beach; Fire I.; E. Quogue; Amagansett; Bayville; Sea Cliff (Bks); Wading R., both along the beach and on the sandy shore of Long Pond about two miles inland; Southold; Greenport; Shelter I.; Orient, Nov 10, 1914, *Lath*; Gardiners I.; at Riverhead, Aug, 1917, individuals with pinkish hind tibiae were collected.

CIRCOTETTIX Scudder

C. verruculatus Kby. L. Mohonk, Sep, *Eng*; Karner, Jl (NYS); Onteora Mt., Aug, *How*; E. Jewett, Aug; Keene Val., Aug, *Not*, Sep, *Eng*; Wilmington, Jl; Mt. Whiteface, Aug (Kngt); Chateaugay L., *Bowditch* (Morse); Little Valley, Sep, *Sherm.*

SCHISTOCERCA Stål

S. americana Drury. **SI:** Our largest grasshopper. Not known to breed on the island; all individuals recorded supposed to be adventive from the South. Occasionally found in May, but more often in Sep and later. On Dec 23, 1894, a male was collected on Todt Hill, and on Dec 28, 1907, a female at Woodrow. The last record is Nov 27, 1923, of a male collected on Todt Hill, it having flown from the ground into a tree, as they often do when disturbed. **LI:** Aqueduct, *Schott.*

S. alutacea Harr. and **S. alutacea** form **rubiginosa** Scudd. The striped form, W. Nyack, Aug; the brown form, White Plains, Sep. The latter is reported also from Sparkill, Rockland Co. (Baird). **SI:** The striped form, greenish in color with a lighter dorsal stripe, is found in moist meadows among rank vegetation: Old Place; Watchogue; Long Neck; Richmond; Arrochar; Richmond Valley. The all-brown or brownish form, *rubiginosa*, is confined more to dry areas: Richmond Valley; Kreischerville; Long Neck; Watchogue. Aug 5–Oct 20. **LI:** The striped form, Central Pk.; Wyandanch; Yaphank; Wading R.; Riverhead. The all-brown form, which is the more common, Rockaway; Aqueduct; Jamaica; Central Pk.; Wyandanch; Cold Sp.; Coram; Yaphank; Smithtown; Wading R.; Riverhead; Calverton; Amagansett; and Montauk. Jl–Sep.

HESPEROTETTIX Scudder

H. brevipennis Thomas. **LI:** This beautiful pink and green species has usually been found among sweet fern, Comptonia, though it occurs also among other plants. On Jl 27, 1909, a large colony was found at Yaphank in an almost circular clump of Comptonia about 36 feet in diameter. On Aug 31, 1912, it occurred in the same locality chiefly on goldenrod flowers, though also on sweet fern. Other localities are: Central Pk., Aug; Coram, Aug; Riverhead, Bald Hill, Aug; Bellmore, Calverton, Sep, *Eng.*

DENDROTETTIX Riley

D. quercus Pck. **LI:** on Sep 3, 1912, a single short-winged male was collected at Yaphank. This is the only record from NY of this sometimes very destructive grasshopper which is known on occasion to defoliate large forest trees.

PODISMA Latreille

P. glacialis Scud. and form **variegata** Scud. Summit of Mt. Whiteface, Jl, nymphs (Ds), adults, Aug 22, *Kngt*, and Sep, *Lg*; L. Placid, Sep, on hazel bush, *Eng*; summit of Mt. Marcy, Aug; Saranac Inn, "on bushes in openings in the woods", *Ndm*; Slide Mt., Sep. The considerable series from Slide Mt. approach *variegata,* but the antennae in the male are not longer than the hind femora. *Variegata* is regarded as a variety by Morse. In his *Review of the Melanopli*, Scudder reports *glacialis* from Mt. Marcy and Chateaugay L., and describes *variegata* from Ithaca and Enfield Falls.

PAROXYA Scudder

P. clavuliger Serville. Van Cort. Pk., Aug; Pine I., Sep, *Brb.* **SI:** Found in grassy swamps, and generally distributed; also along the edge of the salt meadows. Jl–Nov. **LI:** Maspeth, Sep; Flushing, Sep; Aqueduct, Sep; Canarsie, Sep, *Ols*; Riverhead, Aug.

MELANOPLUS Stål

M. viridipes eurycercus Hebard. Groton, Je 11, 1914, *EAChapman*, one male, three females (Ds); Mix Cr. Valley, Cattaraugus Co, Je 11, 1915 (Ds, Bdy), two males, one female (Ds); Rock City, Je 6, 1915 (Ds, Bdy), one female (Ds); Seneca Jct., Je 7, 1915 (Ds), two females (Ds); Ithaca, one female (Hebard); W. Danby, May 30, 1915 (Ds), one male (Ds); (Hebard in Trans. Am. Ent. Soc., vol. 46, p. 396, 1920). Slaterville, May 30, 1925, *Cy&Seeley.*

M. calloplus Hebard. West Pt., Je. 14, 1914, four males, seven females (Ds) (Hebard in Trans. Am. Ent. Soc., vol. 46, p. 401, 1920).

M. tribulus Morse. Ramapo Mts., Oct. **SI:** a wingless species of the woodlands found Jl–Sep Clove Valley; Reeds Valley; Graniteville; near Lambert's Lane, Watchogue; Richmond.

M. mancus S. I. Smith. Kaaterskill High Peak, Catskills, 3800 ft. (Morse). A number have been collected in Sussex Co, northern NJ, so it should be sought between there and the Catskills (Ds).

[*M. dawsoni* Scud. Reported from Toronto, Ontario (Wlk), Brunswick, Me (Pck), Manchester, NH (Morse), and Tobyhanna, Pa, so its discovery within NY is no doubt a matter of more thorough collecting (Ds).]

M. scudderi Uhler. Rockland L., Oct; Danby Hill, Aug, *OEPearce* (CU); Ithaca, *Comst* (Scudd). **SI:** More common of late years with the spreading of the beard grass consequent to the drier condition of the land. It matures late and is generally found from Aug–Oct. A male was collected in 1899 as late as Dec. 2. From Fort Hill, St. George, to Tottenville, in suitable localities. **LI:** Aqueduct, Oct; Pinelawn, Aug–Sep; West Hills, Sep; Selden, Aug; Coram, Aug–Sep; Yaphank, Aug–Sep; Patchogue, Sep; Calverton, Sep; Riverhead, Aug.

M. fasciatus F. Walker. White Plains, Je, *Farley*; West Pt., Je 14 and 16, and Crow's Nest Mt., Je 5, an early date; Axton (M&H); Mt. Whiteface, Jl; Rock City, Jl, *Kngt*; Chipmunk Swamp, Vandalia, Je. **SI:** Clove Valley, on dry hillside, Jl 20, 1914, three males and two females, Aug 14, 1920, two males and one female; Watchogue, on sandy ground among huckleberry bushes, Oct 12, 1918, one male. **LI:** Common on some of the dry and sandy parts of the island. It matures early and has been found from Je 14–Sep. Central Pk.; Massapequa; Pinelawn; Wyandanch; Cold Sp.; Selden; Coram; Yaphank; Wading R.; Riverhead; Calverton.

M. mexicanus atlanis Rly. Callicoon, Jl; Karner, Jl (NYS); E. Jewett, Aug; Mt. Marcy, Jl, *Beq*; Keene Val., Aug, *Not*; Wilmington, Jl; Mt. Whiteface, top, Jl–Aug, *Kngt*; Ithaca, Sep, *Kngt*; Batavia, Jl, *Kngt*; Rock City, Jl, *Kngt*; Rochester, Jl, *Deveson*. **SI:** Generally distributed, Jl–Oct. **LI:** Aqueduct; Half Way Hollow Hills; Selden; Wading R.; Yaphank; Riverhead; Shelter I.; Orient; Gardiners I. Jl–Sep.

M. impudicus Scud. **LI:** In the pine-barren areas. Near Selden, Aug 30, 31, and Sep 1, 1916, three males and one female. Sandy ground north of Coram, Pennequid Barrens, Aug 17, 19, 1920, and Sep 17, 1920, eight males, two females. Deep Pond, Wading R., Aug 7, 1912; Long Pond, Wading R., Sep 3, 1919, and Je 28, 1922.

M. femur-rubrum DeG. RED-LEGGED LOCUST. Rye; W. Nyack; Debruce; Catskills; Adirondacks; Karner; Geneva; Ithaca; Batavia; Otto. **SI:** Generally distributed and common. Also on the salt meadows. Early Aug until frost. Has been found in numbers as late as Nov 27. **LI:** Probably the most common species on the island, and generally distributed. Found on Gardiners I.

M. borealis Fieb. Abundant in stagnant bog, Oswegatchie, Je, 1925, *Hood* (Caud). Hebard states that the northeastern specimens belong to the race *junius* Dodge.

M. confusus Scud. (*minor* Scud.). Van Cort. Pk., Aug; White Plains, Je, *JMFarleyJr*; Nyack, Je; Pine I., Je; Croton-on-Hudson, Je; West Pt., Je; Oliverea, Je; Allaben, Aug, *Dow*; E. Jewett, Aug; W. Hebron, Je, *Lg*; Mt. Whiteface, Jl. **SI:** Clove Valley, Je 24, 27; Ocean Terrace, Je 24; Tottenville, Je 14, Jl 23. **LI:** Wyandanch, Jl; Half Way Hollow Hills, Jl; Yaphank, Je–Jl, Sep; Wading R., at both Long and Deep Ponds, Je–Aug.

M. keeleri luridus Dodge. E. Jewett, Aug; Johnstown, Sep (NYS); Ithaca, Oct, *EOPearce*. **SI:** Richmond Valley, Sep 2; Watchogue, in a barren sandy field, Aug–Oct, but not found in recent years. On Sep 17, 1887, two males and two females were collected at this locality and a note was made that they were plentiful. **LI:** Generally distributed, Aug–Sep: Central Pk; Pinelawn; Wyandanch; Cold Sp.; Selden; Coram; Smithtown; Wading R.; Yaphank; Patchogue; Riverhead; Calverton; Amagansett; Promised Land; Montauk.

M. differentialis Thomas. On Aug 30, 1924, a male was found in the salt meadow among rank vegetation near Old Place on the north shore of **SI.** This was the first record for the State (Journ. N. Y. Ent. Soc., Dec, 1924). Now well established at Old Place.

M. bivittatus Say. Ft. Washington Pk., Manhattan I., Aug; Bronx Pk.; Hastings, Jl, *Joutel*; Croton-on-Hudson, Jl; West Pt., Aug, *Robn*; Debruce, Sep; Callicoon, Jl; Slide Mt., Sep; E. Jewett, Aug; Albany, Jl (NYS); Wilmington, Jl; Cranberry L., Jl (H–Mus. Zoo. U. Mich); Ithaca, Jl–Sep (CU); Rochester, Jl–Aug, *Deveson*; Batavia, Jl–Aug (Kngt). **SI:** Common in both dry and moist situations; most plentiful Jl–Aug, but continuing into Oct. **LI:** Generally distributed, Je–Sep. Aqueduct; Rockaway; Fire I.; Maspeth, *Ols*; Flushing; Hempstead; Central Pk.; Pinelawn; Coram; Selden; Yaphank; Wading R.; Riverhead; Southold; Orient; Amagansett; Montauk; Gardiners I. An early date was a mature male, Deep Pond, Wading R., Je 26, 1913.

M. punctulatus Scud. Ellenville, Sep. *Bt*; Ithaca, Aug–Oct, *Cy*, *OEPearce* (CU). **SI:** Rare in recent years. Found in Aug, Sep, Oct, usually on pines but sometimes on oaks. Sep 23, 1893, a male in grounds of the August R. Grote homestead, Egbertville, where many pines had been planted by the naturalist's father. Aug and Sep, 1899, a number near Richmond, mostly on oaks; Oct 8, 1911, a female on a white pine in the Moravian Cemetery; Eltingville, Sep 27, 1922, a male. **LI:** Cold Sp., Sep; Coram, Aug–Sep, some discovered feeding at night on pitch pines; Yaphank, Sep.

FAMILY **ACRYDIIDAE:** THE GROUSE OR PYGMY LOCUSTS

NOMOTETTIX Morse

N. cristatus Scud. Mosholu; White Plains, Jl; W. Nyack, Sep; Ramapo, May–Je; Suffern, May, *Bell*; Pearl R., May, *Wat*; Rye, Oct; Hastings, *Joutel*; Haverstraw, Oct, *Nic*; Ft. Montgomery, May, Jl; West Pt., May 9, long-winged female, Je; Callicoon, Jl; Oliverea, Je, nymph; Ithaca, Aug–Sep (CU); Rock City, Je, Jl 5, one female, long-winged form; Conesus L., Je. **SI:** Mature individuals in every month from Ap to Oct. Specimens with long pronotum and wings are rare. **LI:** Generally distributed and collected from Ap–Oct; nymphs found in Jl–Sep. Forest Pk. (Hebard); Central Pk.; Massapequa; Pinelawn; Wyandanch; Huntington, *Schott*; Cold Sp. Harb.; Coram; Kings Pk.; Wading R.; Baiting Hollow, *Cy*; Yaphank; E. Quogue; Riverhead; Calverton; Amagansett; Promised Land; Gardiners I.

ACRYDIUM Geoffroy

A. granulatum granulatum Kby. West Farms, Mar, *Joutel*; W. Nyack, Mar, *Beq*; Pine I., Sep, *Brb*; Saranac Inn, *Ndm*; Saranac L., Sep; Mt. Whiteface, 22 individuals found on summit, Jl 10–13, 1914; Keene Val., Aug, *Not*; McLean, May; Ithaca, Ap–May (CU); Tarbel, Je; Portage, May, *Kngt*; Batavia, May–Je, Sep, *Kngt*. **SI:** Rare; adults found from Mar–Oct. Buck's Hollow, border of pond, May 20, 1920 (Bs). **LI:** Brooklyn, Ap 17, 1915 (Shoe); North Beach, Ap 1, 1917, *Schott*.

A. ornatum Say. Croton-on-Hudson, May; Slide Mt., Je, *Shoe*; Albany, Jl (NYS); Axton, Je (M&H); Cascade L., Adirondacks, Aug; Keene Val., Aug, *Not*; Mt. Whiteface, Jl, a long-winged male found on summit; Syracuse, May (H–Mus. Zoo. U. Mich); Montour Falls, Oct (Cy); Ithaca, Ap (Bks), Oct, *Kngt*; Rochester, Sep *Deveson*. **SI**, Ap–May, Aug. A male sent to Scudder was identified as his variety *triangulatum*. **LI**: Brooklyn, *Eng*; Rockaway, Aug, *Woodr*; Central Pk., Sep; Pinelawn, Je; Calverton, Sep.

A. acadicum Scud. (*hancocki* Morse). Axton, Je, *M&H* (Morse). Blatchley regards *hancocki* as a variety of *ornatum* Say, but it is placed as distinct by Morse in his *Orthoptera of New England*. Hebard states that this species should be known under the name *acadicum* Scud.

A. arenosum angustum Hancock. Manhattan I., Beaver St., NYC, Ap 26, 1915; Van Cort. Pk., May; White Plains, May–Je, *Bno*; Nyack, Je; W. Nyack, Ap (Bs); Ramapo, May (Joutel); Pearl R., May, *Wat*; Ft. Montgomery, Jl; West Pt., Je 4, 1916, just matured; Debruce, Sep; Ithaca, Coy Glen, May–Je; Tarbel, Je; Egleston's Glen, L. Keuka, Je; Genesee Co, Je; Rock City, Je–Jl (Kngt, Ds). **SI**: Collected from Mar–Oct. Less common in recent years. **LI**: Rockaway Beach, Oct 5, 1912, and Oct 12, 1918, *Schott*; Wyandanch, May; Cold Sp., *Eng*; Orient, Jl, *Lath*.

NEOTETTIX Hancock

N. femoratus Scud. **SI**, Je, Aug, two males. More common southward.

PARATETTIX Bolivar

P. cucullatus Burm. Manhattan I., Je; Croton-on-Hudson, Je–Jl; Ft. Montgomery, May, Jl (Schott, Ds); West Pt., Je; Callicoon, Jl; Ithaca, Jl, Sep (CU); Tarbel, Je 1, 1915, 31 specimens on mud flat; Portage, Je, *Kngt*; Batavia, Jl, *Kngt*; Rochester, Sep, *Deveson*; Sylvan Beach, Oneida Co, Je, *Not*; Lowville, Je, *Not*.

TETTIGIDEA Scudder

T. lateralis parvipennis Harr. White Plains; Rye, Oct; Hastings, Je, *Joutel*; Nyack, Je; W. Nyack, Sep; Ramapo, May, *Joutel*; Croton-on-Hudson, May–Jl; Ft. Montgomery, May, *Joutel*; West Pt., May, *Robn*, Je; Callicoon, Jl; Oliverea, Je, Sep; Saranac Inn, *Ndm*; Wilmington, Jl; Keene Val., Je, Sep, *Not*; Mt. Whiteface, top, Jl 10 and 13, 1914; Ithaca, Aug, Sep (CU); McLean, May; Tarbel, Je 1, 1915, 19 examples, long- and short-winged individuals paired together; Potter Swamp, Yates Co, Je; Rochester, Jl, *Deveson*; Honeoye Falls, Je 26, 1916, 17 examples, 5 pairs; Batavia, Je–Jl (Kngt, Ds). **SI**: Generally distributed; collected from Ap–Oct, and known to hibernate in the mature state. Long-winged form found at St. George on sidewalk, Oct 6, 1916, and Oct 10, 1919. **LI**: Rockaway, Je, Oct, *Eng*, *Schott*; Pinelawn, Je, Sep; Wyandanch, May–Je, Sep, Dec, *Ds*, *Schott*; Melville, Oct, *Schott*; Sands Pt., Sep, *Bs*; Bellport, Aug, *Nic*; E. Patchogue, Sep; Yaphank, Aug 26, 1915, 19 individuals, some immature; Springs, Sep; Montauk, Aug 25, nymph; Orient, Oct 10, on salt meadow, *Lath*; Gardiners I., Aug.

The form *acuta* Morse, with the anterior margin of the pronotum produced into an acutely pointed process, was described from "NY" (Journ. N.Y. Ent. Soc., Mar, 1895), and has been taken on **SI**, Ap (Ds), and **LI**, Cold Sp., *Eng* (Psyche, Ap, 1908).

T. armata Morse. **SI**: the following were part of the paratypes of *T. davisi* Morse, now considered a synonym of *armata*: female, Ap 24, 1897; male, Sep, 1900; male, Je 5; female, Je; in wet places. *T. armata* is more common southward.

ORDER ISOPTERA

FAMILY TERMITIDAE

RETICULITERMES Holmgren

R. flavipes Kollar. Ithaca; Binghamton, Je, destroying girders in a large office building (Chap); Karner (Felt); Albany, Ap (NYS); White Plains (Bno); Mt. Vernon, Ap (Felt); Bronx Pk.; Mosholu (*Sf*); NYC (*Joutel*); **SI:** Port Richmond; **LI:** Brooklyn; Bergen Beach; Long Island City; Cold Sp. Harb.; Floral Pk., Aug (Sirrine); Sea Cliff (*Bks*); Pinelawn, swarming, Je (Ds).

ORDER NEUROPTERA

FAMILY SIALIDAE

SUBFAMILY SIALINAE

SIALIS Latreille

S. americana Ramb. L. George (Ndm).

S. concava Bks. Ithaca (Bks).

S. infumata Newn. Saranac Inn (Ndm); Ogdensburg, Je (Felt); Sacandaga Pk., Je (Alex); Castile, May, *Brad* (Fbs); Ithaca (Ndm); Ft. Montgomery, May (Ds); Ramapo, May–Je (Ds); Croton-on-Hudson, May (Ds); **SI:** Richmond, May (Ds).

SUBFAMILY CORYDALINAE

CHAULIODES Latreille

C. angusticollis Hagen. Highland L., Sullivan Co, Aug, *Chapin* (Ds); **SI,** Jl–Aug (Ds).

C. concolor Ds. Ithaca, Jl (KCDavis).

C. fasciatus Wlk. (*lunatus* Hagen). West Pt., Je, *Robn* (Ds); Sterlington, Je (Ds).

C. pectinicornis L. Saranac Inn (Ndm); Ithaca, Je (SmRC); Trenton Falls (Hagen); Schenectady, Je–Jl (Lint); Buskirk's Bridge (Lint); Tiashoke (Lint); Troy, Jl (Felt); Athens, Jl (Felt); Sullivan Co (Ds); West Pt., Je (Ds); **SI:** Tottenville and Watchogue, May–Aug (Ds); **LI:** Maspeth, Je, *Olsen* (Ds).

C. rastricornis Ramb. Saranac Inn, Je (Ndm); Baldwinsville, Je (Ndm); Fulton, Je (Ndm); McLean, Je (Ndm); **SI,** May–Je (Ds); **LI,** May (Ds).

C. serricornis Say. Saranac Inn, Je (Ndm); Ithaca, Jl (SmRC); McLean, May (Ndm); West Pt., Je (Ds); Ramapo, May (Ds); Ft. Montgomery, May (Ds); Bronx Pk., May (Ds); **SI,** May–Jl (Ds).

CORYDALIS Latreille

C. cornuta L. Adirondacks (Felt); Ogdensburg, Jl (Felt); Oneonta (NYS); Rochester, Jl (Felt); Schuylerville, Jl (Felt); Ithaca; Peruville, Je (Felt); Schoharie, Je (Felt); Howe Cave, Je (Felt); Cobleskill, Aug (Felt); Shushan, Jl (Felt); Altamont, Jl (Felt); Albany, Je (Felt); Rensselaer, Je (Felt); Ghent, Aug (Felt); Grand Gorge, Jl (Felt); Kingston (Lint); Milton, Jl (Felt); Liberty (Ds); Cornwall (Lint); Pine I., Je (Ds); Ft. Montgomery (Ds). Rocky streams, generally (Ndm).

FAMILY **MANTISPIDAE**

MANTISPA Illiger

M. brunnea Say. **LI:** Coram, on the Pennequid Barrens, Aug 19, 1920, *Eng*, and Yaphank, *Wks* (Ds).

M. interrupta Say. **LI:** Long Pond, Wading R., Je 26, 1922, found by Schott on the coat of Wm T. Davis, who had been walking through scrub oaks (Ds).

FAMILY **SISYRIDAE**

SISYRA Burmeister

S. umbrata Ndm. Saranac Inn, Je–Jl (Ndm); Sacandaga Pk., Je–Jl (Alex).

S. vicaria Wlk. Saranac, Je (Bks); Ithaca, Je (Bks); Mosholu, Sep (Bks).

CLIMACIA McLachlan

C. areolaris Hagen (*dictyona* Ndm). Saranac Inn, Jl–Aug (Ndm); Canada L., Jl, and Sacandaga Pk., Je 22 (Alex).

FAMILY **SYMPHEROBIIDAE**

PSECTRA Hagen

P. diptera Burm. Gloversville, Aug 29 (Alex); Ithaca (Bks).

SYMPHEROBIUS Banks

S. amiculus Fitch. "NY," on peach trees, May–Oct (Fitch-Sm NJ List); Ithaca, Aug 1, *Cy* (SmRC); **SI** (Ds); **LI:** (Ds); Sea Cliff (Bks).

FAMILY **HEMEROBIIDAE**

HEMEROBIUS Linnaeus

H. castaneae Fitch. Mosholu, Mar.

H. conjunctus Fitch. "NY" (Fitch).

H. fidelis Bks. Gowanda, Je, *EPV* (Bks).

H. humuli L. (*castanae* Fitch, *tutatrix* Fitch). Wanakena, Aug, *Drake* (SmRC); Saranac Inn, Aug (CU); West Falls, Je (CU); Castile, May, *Brad* (Fbs); Ithaca; McLean, Jl–Sep (SmRC); Pine Kill, Sullivan Co, May 22, *Cy* (SmRC); **SI:** Tottenville, etc., Je–Aug; **LI:** Sea Cliff (Bks), May–Jl (Bks, SmRC); Ronkonkoma, Sep 9, *Cy* (SmRC).

H. hyalinatus Fitch. "NY," May–Jl, on pine (Sm NJ List); L. Placid, Aug, *EPV* (NYS); Penn Yan, May 30, *Cy* (SmRC).

H. placidus Bks. L. Placid, Aug (Bks).

H. simulans Wlk. Ithaca (Bks).

H. stigmaterus Fitch. Old Forge, Jl (CU); Otto, Sep (CU); Castile, May, *Brad* (Fbs); Cinnamon L., Jl 24, *Cy* (SmRC); Ithaca (Bks), in trap lantern, Jl 24, *Fbs* (SmRC); McLean, Sep (SmRC); **SI:** New Brighton, May, Sep (Ds); **LI:** Sea Cliff (Bks).

BORIOMYIA Banks

B. disjuncta Bks. Keene Valley (Bks); Axton, *MacG* (Bks); Ithaca, *MacG* (Bks); Onteora Mt., Jl, *How* (Bks).

B. longifrons Wlk. (*alternatus* Fitch). "NY," on pine and hemlock in Je (Fitch–Sm NJ List); Ithaca, Je (Bks).

MICROMUS Rambur

M. angulatus Steph. L. Placid, Aug, *EPV* (NYS); Cranberry L., Jl, *Drake* (SmRC); Gloversville, Sep 9 (Alex).

M. jonas Ndm. Saranac Inn, Jl (Ndm); Woodworth's L., Aug 19 (Alex).

M. montanus Bks. L. Placid, Aug, *EPV* (NYS); Old Forge, Jl (CU); Mountain L., Fulton Co, Jl 21 (Alex); Onteora Mt., *How* (Bks).

M. posticus Wlk. West Falls, Jl (CU); Ithaca, Jl, Sep–Oct (SmRC); Kingston, Aug, *EPV* (NYS).

M. subanticus Wlk. L. Keuka, Sep (CU).

FAMILY BEROTHIDAE

LOMAMYIA Banks

L. flavicornis Wlk. **SI:** Clove Valley, Jl, rare (Ds); **LI:** Central Pk., May, Aug (Ds); Coram, on the Pennequid Barrens, Aug 18, 1920 (Ds).

FAMILY POLYSTOECHOTIDAE

POLYSTOECHOTES Burmeister

P. punctatus Fab. Newport, Sep (Felt); Cranberry L., Jl (Ndm); Saranac Inn, common, Jl (Ndm); St. Lawrence Co, Aug (Ndm); Long L., Aug, abundant (Lint); Gloversville, Jl (Alex); N. Fair Haven, Aug (Ndm); Chautauqua (Ds); Ithaca, 1 specimen (SmRC); Troy, Jl (Felt); Stamford, Aug (Ds); **SI,** Jl–Aug (Ds); **LI** (Ds).

FAMILY CHRYSOPIDAE[7]

ALLOCHRYSA Banks

A. virginica Fitch. **SI,** Aug (Bks–Ds).

CHRYSOPA Leach

C. chi Fitch (*ypsilon* Fitch). Newcomb, Jl (SmRC); Axton, Je (Bks); Cranberry L., Jl (SmRC); Old Forge (CU); Woodworth's L., Je 23, and Johnstown, Je 3 (Alex); Ithaca and McLean (SmRC); Black Br., Je (SmRC); Greene Co, Jl (SmRC); **LI:** Sea Cliff, May–Je (Bks).

C. emuncta Fitch. Onteora Mt., Aug, *How* (Bks).

C. harrisii Fitch. Newport, Jl (NYS); Pike, Jl (NYS); Albany, Oct (NYS); **SI,** Oct (Ds).

C. interrupta Fitch. Honeoye Falls, Sep (SmRC); Ithaca, Aug, at trap lantern, Oct (SmRC).

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[7] This list has been checked by Dr. Roger C. Smith, of the Department of Entomology, Kansas State Agricultural College.

C. lineaticornis Fitch. Ithaca, on linden (SmRC).

C. nigricornis Burm. Sacandaga Pk., Je 27 (Alex); Buffalo (Bks); Ithaca, May–Aug (Bks, SmRC); McLean, Je (Sib); **SI,** Aug–Sep (Bks–Ds); **LI:** Sea Cliff (Bks).

C. occulata Say (*chlorophana* Bks., *albicornis* Fitch). Generally distributed and common throughout the State. Wilmington, Aug (SmRC); Cranberry L., Jl (SmRC); Syracuse, Jl (SmRC); Old Forge and Baldwinsville; West Falls, Jl; Ithaca, Jl–Aug (Bks); McLean, Jl–Sep (SmRC); Karner, Je (SmRC); Onteora Mt., *How* (Bks); **SI,** Je–Jl (Bks–Ds); **LI:** Sea Cliff, Jl–Aug (Bks).

C. plorabunda Fitch. Not abundant in NY State (SmRC). Ithaca, Jl (CU).

C. quadripunctata Burm. Ithaca, Je, at trap lantern (SmRC); McLean, Aug (SmRC); **SI,** Sep (Bks–Ds); **LI:** Sea Cliff, Aug (Bks).

C. rufilabris Burm. Axton (Bks); Ithaca, Sep (Bks, SmRC); Trenton Falls (Wlk); **SI,** Sep (Bks–Ds); **LI:** Sea Cliff (Bks).

C. stenostigma Navas. **LI:** Yaphank, Jl 25, *Bno* (Navas).

C. stichoptera Navas. **LI:** Yaphank, Jl 10, *Bno* (Navas).

MELEOMA Fitch

M. signoretti Fitch. Old Forge, Jl (Ndm); Ithaca, Je (SmRC); Onteora Mt., Je, *How* (Bks); **LI** (Bks).

M. slossonae Bks. Old Forge, Jl (Ndm); Malone, Je (Ndm); Mountain L., Je 18 (Alex); Sacandaga Pk., *Alex* (SmRC).

FAMILY MYRMELEONIDAE

MYRMELEON Linnaeus

M. crudelis Wlk. (*rusticus* Hagen). **SI,** Jl (Ds).

M. immaculatus DeG. Essex Co, Jl (NYS); Ithaca, Aug (Comstock); Albany; Coeymans, Je (Lint); **SI,** Je, Sep (Ds).

DENDROLEON Brauer

D. obsoletum Say. Ithaca, Jl–Aug (Comstock, Ndm–CU); Taughannock, Aug *Bdy* (Ndm–CU); Coeymans, Sep (Hagen); Palenville, Aug (Lint); **LI:** Yaphank, Jl–Aug, and Gardiners I. (Ds).

BRACHYNEMURUS Hagen

B. abdominalis Say. Croton-on-Hudson, Je (Ds); **SI:** Arrochar, Je, Aug, and Watchogue, Jl (Ds); **LI:** Yaphank, Jl, E. Quogue, Aug, Half Way Hollow Hills, Jl, and Coney I., Sep (Ds).

CRYPTOLEON Banks

C. nebulosum Oliv. (*conspersa* Ramb). **SI:** Richmond Valley, May (Ds); **LI:** Wyandanch, Jl; Bayshore, Jl, *Olsen*, and Yaphank, Jl (Ds).

C. signata Hagen. **SI** (Bks–Ds). Mr. Davis states that this is the *Dendroleon pumilis* Burm. of the N. J. List, 1910 ed., which was based on a misidentification by Banks.

FAMILY ASCALAPHIDAE

ULULODES Currie

U. quadripunctata Burm. **SI** (Ds).

COLOBOPTERUS Rambur

C. excisus Hagen. Ithaca, *Ada E. Georgia* (Ndm).

FAMILY CONIOPTERYGIDAE

CONIOPTERYX Curtis

C. hageni Bks. **LI:** Sea Cliff (Bks).
C. vicina Hagen. Hamburg (Bks); Woodworth's L. and Johnstown, Aug (Alex); Ithaca, Jl–Aug, common; **LI:** Sea Cliff (Bks).

MALACOMYZA Wesmael

M. westwoodi Fitch. Gloversville, Je 13 (Alex).

CONWENTZIA Enderlein

C. hageni Bks. Speculator, Jl, *Yg* (NYS).

ORDER EPHEMERIDA[8]

FAMILY EPHEMERIDAE

SUBFAMILY BAETINAE

BAETISCA Walsh

B. obesa Walsh. Northampton, May (Felt); Newport, May, *Yg*; Niagara R. (EPV); Fish House, May (Alex).

CHIROTENETES Eaton

C. albomanicatus Ndm. Johnstown, Je–Jl (Alex); Fall Cr., Ithaca, Jl (Ndm, Morg); May–Aug, nymphs; Slaterville, Jl (Ndm).

AMELETUS Eaton

A. ludens Ndm. Newport, May, *Yg*; Pleasant Br., Ithaca, nymphs abundant, Ap (Morg). An inhabitant of temporary streams, parthenogenetic, eggs aestivate five months. But one male known (Ndm).

CHOROTERPES Eaton

C. basalis Bks. Old Forge, Aug (Ndm); Woodworth's L., Aug (Alex); Wintergreen Pt.; Ithaca, Jl (Ndm); L. George, Aug (Ndm).

[8] Edited by J. G. Needham.

CAENIS Stephens

C. diminuta Wlk. Thousand I. Pk. (M. R. Miller); Little Clear Pond, near Saranac Inn, Jl (Ndm); Saranac Inn, Jl (Ndm); Old Forge, Jl–Aug (Ndm); Fall Cr., Ithaca (Morg); McLean, Je–Aug, *Sib* (Ndm); L. George, Aug (Ndm).

C. hilaris Say. Thousand I. Pk. (M. R. Miller); Ithaca (Ndm, Morg), abundant.

C. lacustris Ndm. Oneida L., *F. C. Baker* (Ndm).

SIPHLONURUS Eaton

S. alternatus Say. Saranac Inn, Little Clear Pond, and Old Forge (Ndm); Bald Mt. Pond (Ndm); First L., Je (Ndm); Sacandaga Pk., Je (Alex); Ithaca, nymphs common, Ap–Je (Morg); Slaterville, Je (Ndm); Trenton Falls (Wlk).

S. aridus Say. NY (Bks).

S. femoratus Say. "NY" (Bks).

S. mirus Eaton. Sacandaga Pk. and Fish House, May–Je (Alex).

S. typicus Eaton. Johnstown, Je (Alex).

SIPHLOPLECTON Clemens

S. flexus Clem. Shore of L. Ontario near N. Fair Haven, Jl 19 (Ndm).

LEPTOPHLEBIA Westwood

L. betteni Ndm. Hamburg, Jl (Bet); Howard, Jl 5, *Cy* (Ndm); Ithaca (Ndm); McLean, Jl (Emily R. Morrison), Aug, *Sib.*

L. mollis Eaton. Old Forge (Ndm); Fall Cr., Ithaca (Morg); L. George, Je (Ndm).

L. praepedita Eaton. Fall Cr., Ithaca, May–Je (Morg).

SIPHLONISCA Needham

S. aerodromia Ndm. Sacandaga Pk., *Alex* (Ndm); Northampton, May (Felt); Johnstown, *Alex* (Ndm).

CALLIBAETIS Eaton

C. americana Bks. Van Cort. Pk., Je 2 (Ds); **SI,** Ap 30, May 10 (Ds); **LI:** Yaphank, Jl 25 (Ds).

C. ferruginea Walsh. Saranac Inn, Aug (Ndm); Mountain L., Je (Alex); **LI:** Sea Cliff (Bks).

C. fluctuans Walsh. Ithaca, Je (Ndm).

C. hageni Eaton. Old Forge, Jl–Aug (Ndm).

C. undatus Pict. "NY" (Hagen).

BAETIS Leach

B. posticatus Say. Old Forge, Jl–Aug (Ndm).

B. propinquus Walsh. Ithaca, *Murphy.*

B. pygmaea Hagen. Saranac Inn (Ndm); Sacandaga Pk., Je (Alex); Ithaca, Jl (Ndm, Morg).

BLASTURUS Eaton

B. cupidus Say. Old Forge, Je, and Ithaca (Ndm, Morg); McLean, May–Je, *Sib* (Ndm); Castile, Ap–May, *Brad* (Ndm); **SI**, Ap 16, 27, and Je (Ds); **LI**: Wyandanch, Ap 21, *Schott*, and Yaphank, May 29 (Ds).

B. nebulosus Wlk. Fish House, May 28 (Alex).

EPHEMERELLA Walsh

E. cornuta Morg. Ithaca (Morg).

E. deficiens Morg. Ithaca (Morg).

E. dorothea Ndm. Beaver Meadow Br., near Old Forge, extremely local (Ndm).

E. excrucians Walsh. Saranac Inn (Ndm); Cayuga L., Je; L. George, Je (Ndm).

E. feminina Ndm. Ithaca (Ndm); McLean, Jl–Aug, *Sib* (Ndm); Richfield Sps., May (Ndm). Apparently parthenogenetic.

E. lata Morg. Ithaca, Je (Morg).

E. rotunda Morg. Pleasant Br., Ithaca, Je (Morg).

E. serrata Morg. Ithaca (Morg).

E. simulans Wlk. Ithaca, Je (Morg).

E. tuberculata Morg. Fall Cr., Ithaca (Morg).

TRICORYTHUS Eaton

T. allectus Ndm. Old Forge, Ithaca, Je–Jl (Ndm).

CLOEON Leach

C. mendax Walsh. Old Forge (Ndm).

C. vicinum Hagen. Old Forge (Ndm).

HABROPHLEBIA Eaton

H. vibrans Ndm. Bald Mt. Pond, near Old Forge, Jl (Ndm).

SUBFAMILY EPHEMERINAE

POLYMITARCYS Eaton

P. albus Say. Fall Cr., Ithaca, Je (Morg); points on Susquehanna R. (Ndm); Corning, on Chemung R., Aug (Ndm).

HEXAGENIA Walsh

H. bilineata Say. Buffalo, Jl, *Bet* (Ndm); Niagara Falls, Jl, *Watson*, as *limbata* Guér. (Ds); Cayuga L. (Ndm); Seneca L. (Ndm); Schenectady, Je (Lint); L. George, in deep water, Jl–Aug (Ndm); Poughkeepsie, Jl (Felt).

H. recurvata Morg. Pine L., near Canada L., Herkimer Co. (Ndm); Michigan Hollow (Ndm); McLean (Ndm).

H. variabilis Eaton. Little Clear Cr., near Saranac Inn, Je–Aug (Ndm); Ithaca, May (Morg); ? Coxsackie, Je (Felt).

EPHEMERA Linnaeus

E. guttulata Pict. Sacandaga Pk., *Alex* (Ndm); Fall Cr., above McLean (Ndm); Ft. Montgomery, May 31, 1903 (Ds).

E. simulans Wlk. Sacandaga Pk., Je 23 (Alex); N. Fair Haven (Ndm); Cayuga L., Jl, *Comstock* (Ndm); Buffalo, *Bet* (Ndm); Fall Cr., Ithaca, Je–Jl (Morg); L. George, late Je–Jl (Ndm).

E. varia Eaton (*decora* Hagen). Little Clear Cr. and Saranac Inn (Ndm); Moose R. (Ndm); Old Forge (Ndm); Gloversville, Jl, *Alex* (Ndm); Fall Cr., Ithaca (Ndm, Morg).

POTAMANTHUS Pictet

P. diaphanus Ndm. Old Forge; Squaw I.; Buffalo, Jl, *Bet*; Ithaca (Ndm).

P. inaequalis Ndm. Schenectady, Je (Ndm).

SUBFAMILY HEPTAGENINAE

ECDYONURUS Eaton

(*Ecdyurus* Eaton)

E. maculipennis Walsh. Mountain L., Fulton Co, Jl (Alex); Corning, Jl, *Cy* (Ndm); Ithaca, Je–Jl (Ndm, Morg); McLean, Jl 29, Aug, *Sib* (Ndm).

HEPTAGENIA Walsh

? **H. canadensis** Wlk. "NY," *O. S.* (Hagen).

H. interpunctata Say. Old Forge (Ndm); Trenton Falls, *O. S.* (Hagen); Ithaca, Ap (Morg) and Jl (Ndm); McLean, Jl, *Sib* (Ndm); L. George, Aug (Ndm).

H. luridipennis Burm. Johnstown, Je, *Alex* (Bks); Westfield (Bks).

H. placita Bks. Sacandaga Pk., Je, *Alex* (Bks).

H. pleuralis Bks. Gloversville, May 15, *Alex* (Bks)—type; Ramapo, May 31, and SI, Je 7, as *Iron* (Ds).

H. pulchella Walsh. Saranac Inn (Ndm); Old Forge, Jl–Aug (Ndm); N. Fair Haven (Ndm); Fall Cr., Ithaca (Morg); L. George, Aug (Ndm).

H. tripunctata Bks. Westfield (Bks); Johnstown, Je 15 (Bks).

H. verticis Say. "NY" (Bks).

IRON Eaton

I. fragilis Morg. Coy Glen, Pleasant Br., and Fall Cr., near Ithaca (Morg).

EPEORUS Eaton

E. humeralis Morg. Ithaca, May–Jl (Morg); Slaterville, *Theresa M. Robinson* (Ndm); Tarbel, near Lansing (Ndm).

ORDER ODONATA [9]

SUBORDER ZYGOPTERA

FAMILY AGRIONIDAE

CALOPTERYX Burmeister

C. aequabilis Say. Old Forge (Ndm); Keeseville, Aug, *Sheraton* (Calv); Ithaca, Je (Kennedy); Bronx Pk., Je (Ds).

C. amatum Hagen. Axton, Je (M&H); Keene Valley, Jl (Calv–NYS).

[9] Edited by J. G. Needham, with the collaboration chiefly of P. P. Calvert, E. M. Walker, and Wm. T. Davis.

C. dimidiatum Burm. Axton, Je (M&H); Rochester (Moore); NYC (Bt).

C. maculatum Beauv. Generally distributed. Axton, Je (M&H); Keeseville, Je, *Sheraton* (Calv); Peru, *Cy*; Old Forge (Ndm); Saranac Inn, late Je (Ndm); De Ruyter Res., Madison Co, *Cy*; Buffalo, *EPV* (Kellicott); Castile, *Brad* (Ndm); Ithaca (Bks); Schenectady, Jl (NYS); Trenton Falls, *O.S.* (Hagen); NYC, Je (Hagen); **SI**, Je–Aug (Ds); **LI**, general (Ds). Streams in deep woods.

HETAERINA Hagen

H. americana Fab. Keeseville, Aug, *Sheraton* (Calv); Ithaca, *Salant* (Bks); Albany Co (NYS); Slingerlands, Aug (Felt). Along sandy streams, Aug–Sep; very local.

LESTES Leach

L. congener Hagen. L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Castile, *Brad* (Ndm); Ithaca (Ndm); Bronxville, Jl–Sep, *Woodr* (Ds); **SI**, Sep–Nov (Ds); **LI**: Flushing, Aug (Ds); Southold, Sep (Ds).

L. disjunctus Selys. Waddington, Aug (Woodr); Keene Valley (Not); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Keeseville, Jl–Aug, *Sheraton* (Calv); Ithaca, Aug (Bks); Catskill L., Aug (Calv); Hunter, Mud, and Burnt Hill Ponds, and Beaver Br., Sullivan Co, Jl (Calv); **LI**: Wading R. and Long Pond, Aug (Ds); Calverton, Sep (Ds); Bridgehampton, Aug (Calv).

L. eurinus Say. Rochester (Moore); Dobbs Ferry, *Willn* (Calv); Riverdale, Jl, *Woodr* (Ds); **SI**, Je–Jl (Ds); **LI**: Wading R., Je (Ds). Tree-shaded ponds.

L. forcipatus Ramb. Rochester (Moore); Ithaca, Je (Bks); Bronxville, Je–Aug, *Woodr* (Ds); **SI**, May–Aug (Ds); **LI**: Deep Pond, Wading R., Aug–Sep (Ds); Yaphank, Sep (Ds); Gardiners I., Aug (Ds).

L. inaequalis Walsh. **SI**, Je–Jl (Ds).

L. rectangularis Say. Dobbs Ferry, Jl (Calv); Rochester (Moore); Buffalo, Aug–Sep, *EPV* (Kellicott); Ithaca, Jl–Aug (Bks); Schoharie (NYS); Saratoga L., Aug (Calv); Cairo and Stony Clove, Greene Co, Aug–Sep (Calv); Black L., Beaver Br., and Stump Pond, Sullivan Co, Aug (Calv); New Baltimore (NYS); Bronxville, Jl (Woodr); NYC, *Calverley* (Hagen); **SI**, Je–Aug (Ds); **LI**: Flushing and Gardiners I., Aug (Ds).

L. uncatus Kby. Mt. Marcy, 4500 ft. (Not); Keeseville, Jl, *Sheraton* (Calv); Saranac Inn (Ndm); Batavia, Je (Ds); Buffalo, Je–Aug, *EPV* (Kellicott); Ithaca (Ndm); Bronxville, Jl, *Woodr* (Ds).

L. unguiculatus Hagen. Keene Valley (Not); Saranac Inn, Jl (Ndm); Rochester (Moore); Ithaca (Ndm); NYC (Bt); Bronxville, Je–Jl, *Woodr* (Ds); **SI**, Je–Jl (Ds); **LI**: Yaphank, Sep (Ds); Long Pond, Wading R., Je–Aug (Ds); Orient, Sep, *Lath* (Ds); Gardiners I., Jl (Ds).

L. vigilax Hagen. Old Forge, Je–Jl (Ndm); Green and Catskill Lakes, Aug (Calv); Folwood, Amber, Stevensville, and Black Lakes, Knapp and Stump Ponds, and Beaver Br., Sullivan Co, Jl–Aug (Calv); **LI**: Yaphank, Jl (Ds); Wading R., Aug (Ds); Wyandanch, Jl (Ds); Cold Sp. Harb. (Ndm).

ARGIA Rambur

A. apicalis Say. **SI** (Ds).

A. bipunctulata Hagen. "NY" (Bks).

A. moesta Hagen subsp. **putrida** Hagen. Axton, Je (M&H); Saranac Inn (Ndm); Keene Valley (Not); Rochester (Moore); Niagara, *Slosson* (Calv); Buffalo, Jl–Aug, *EPV* (Kellicott); Ithaca, summer (Bks); Schoharie (NYS). Along creeks where rapid current is broken by projecting stones.

A. tibialis Ramb. Pine I., Je (Woodr).

A. translata Hagen. White L., Sullivan Co, Aug (Calv).

A. violacea Hagen. Waddington, Aug (Woodr); Axton (M&H); Keeseville, Jl–Aug, *Sheraton* (Calv); Old Forge (Ndm); Saranac Inn, Jl (Ndm); Buffalo, Aug, *EPV* (Kellicott); Ithaca, Jl (Bks); L. George, Aug (Ndm); Green L. (Calv); Amber, White, and Black Lakes, Jenkins and Stump Ponds, and Beaver Br., Sullivan Co, Jl–Aug (Calv); Dobbs Ferry, Jl–Aug, *Willn* (Calv); Bronxville, Jl, *Woodr* (Ds); **SI**, Je–Aug (Ds); **LI**: Yaphank, Jl–Sep (Ds); Smithtown, Aug (Ds); Wyandanch, Jl (Ds); Flushing, Aug (Ds). About most ponds.

ENALLAGMA Charpentier

E. antennatum Say. Waddington, Aug (Woodr); Keene Valley (Not); Ithaca (Kellicott–CU).

E. aspersum Hagen. Dobbs Ferry, Jl, *Willn* (Calv); Burnt Hill, Knapp, and Cranberry Ponds, Sullivan Co, Jl (Calv); NYC (Bt); **SI**, Je–Aug (Ds); **LI**: Yaphank, Jl (Ds); Bridgehampton, Aug (Calv).

E. calverti Morse (*boreale* Selys [Wlk.]). McLean Bogs (*Bdy&Hd*).

E. carunculatum Morse. Waddington, Aug (Woodr); Keene Valley (Not); Piseco L., Aug (Calv); L. Pleasant, Jl (Calv); Squaw I., late Je, *EPV* (Kellicott); Niagara, *Slosson* (Calv); Saratoga L., Aug (Calv); L. George (Ndm); Bronxville, Je, Aug, *Woodr* (Ds).

E. civile Hagen. Rochester (Moore); Bronxville, *Woodr* (Ds); **SI**, Je, Aug–Sep (Ds); **LI**: Mecox Bay (Calv); Flushing, Yaphank, and Fire I. (Ds); Greenport, Aug (Ds); Amagansett, Sep (Eng); Rockaway, Jl (Woodr); Gardiners I., Aug (Ds).

E. cyathigerum Charp. (*annexum* Hagen). Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Jl (Ndm); Ithaca, Aug (Bks); West Pt., Je (Ds).

E. divagans Selys. Rochester (Moore); Ithaca (Mary Lyon); **LI** (Bks).

E. doubledayi Selys. Ithaca (Mary Lyon); **LI**: Deep Pond, Wading R., Je, Aug (Ds); Bridgehampton, Aug (Calv).

E. durum Hagen. Stony Pt., Je (Ds); **LI**: Mecox Bay, Aug (Calv); Yaphank, Je, Sep (Ds).

E. ebrium Hagen. Waddington, Aug (Woodr); Keene Valley and Mt. Marcy, 4500 ft. (Not); Keeseville, Je–Jl, *Sheraton* (Calv); Ithaca (Bks); L. George (Ndm); Schoharie (NYS); Catskills (Calv–AES); ponds in Ulster, Sullivan, and Greene Counties, Jl–Aug (Calv).

E. exsulans Hagen. Keene Valley (Not); Keeseville, Je, Aug, *Sheraton* (Calv); Saranac Inn (Ndm); Old Forge (Ndm); Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Clarence, Jl, *EPV* (Kellicott); Ithaca, Jl–Aug (Bks); Pine I., Je (Ds); Port Jervis (Calv); Saratoga L., Aug (Calv); Pine I., Je (Woodr); Bronxville, Jl, *Woodr* (Ds); West Farms, *Angus* (Ds).

E. geminatum Kellicott. Parish, Aug (Kellicott); Green L., Aug (Calv); Amber L., Sullivan Co, Aug (Calv); **SI,** Aug–Sep (Ds), Je (Woodr); **LI:** Yaphank, Wyandanch, and Flushing, Jl–Sep (Ds).

E. hageni Walsh. Axton, Je (M&H); Saranac Inn (Ndm); Keene Valley (Not); Old Forge (Ndm); Squaw I., Je, *EPV* (Kellicott); L. Pleasant, Jl (Calv); Lake Bluff at Huron (Calv); Castile, *Brad* (Ndm); Ithaca (Bks–CU); Rensselaer, Je (Woodr); Knapp Pond, Sullivan Co, Jl (Calv).

E. hesperum Calv. (*pollutum* Hagen). Black L., Sullivan Co, Aug (Calv); **LI:** Yaphank, Sep (Ds).

E. minusculum Morse. **LI:** Long Pond, Wading R., Je 26, 1917, common (Ds).

E. pictum Morse. **LI:** Wyandanch, Jl (Ds).

E. piscinarium Willn. Mt. Marcy and Keene Valley (Not); Ithaca (Ndm).

E. recurvatum Ds. **LI:** Wyandanch, Jl (Ds).

E. signatum Hagen. Rochester (Moore); Williamsville, Sep, *EPV* (Kellicott); Ithaca (Ndm); Folwood, Amber, and Black Lakes, and Stump Pond, Sullivan Co, Aug (Calv); Green L., Aug (Calv); Bronxville, Aug (Woodr); **SI,** Je, Aug (Ds); **LI:** Yaphank, Sep (Ds); Flushing, Aug (Ds); Cold Sp. Harb., Jl, *Brb* (Ds). Along sluggish creeks.

E. traviatum Selys. **LI:** (Bks); Wyandanch, Aug 21, 1917 (Ds).

NEHALENNIA Selys

N. carlotta Butler. Saranac Inn, *Ndm* (Hortense Butler).

N. gracilis Morse. Saranac Inn (Ndm); **LI:** Yaphank, Jl (Ds).

N. irene Hagen. Mt. Marcy, 4500 ft. (Not); Old Forge (Ndm); Saranac Inn, Jl (Ndm); Rochester (Moore); Ithaca, Jl (Bks); Nyack, Je (Ds); Bronxville, Jl, *Woodr* (Ds); **SI,** Je (Ds); **LI:** Wyandanch and Yaphank, Jl (Ds); Forest Pk., Brooklyn, Je (Ds).

AMPHIAGRION Selys

A. saucium Burm. Rochester (Moore); Buffalo, Jl–Aug, *EPV* (Kellicott); Ithaca (Bks); McLean (Sib); Trenton Falls, *O.S.* (Hagen); Karner (NYS); Schoharie, Je (Not); Big Pond, Delaware Co, Jl (Calv); **SI,** May–Je, Aug (Ds); **LI:** Half Way Hollow Hills, Jl (Ds); Yaphank, Je (Ds).

COENAGRION Kirby

C. resolutum Hagen. Cinnamon L., Jl (Ndm).

CHROMAGRION Needham

C. conditum Hagen. Saranac Inn (Ndm); Mt. Marcy (Not); Hamburg, Je, *EPV* Kellicott); Castile, *Brad* (Ndm); Ithaca (Bks); McLean, May (Ndm), Je (Sib); **SI,** Jl 8, 1918 (Ds). Breeds in upland swales or in ditches of running water.

ISCHNURA Charpentier

I. posita Hagen. Rochester (Moore); Ithaca (Ndm); Central Pk. in NYC, Je (Woodr); **SI,** May–Sep (Ds); **LI:** Yaphank, Jl (Woodr).

I. ramburii Selys. NYC (Bt); **SI,** Sep–Oct (Ds); **LI:** Fire I., Sep (Ds).

I. verticalis Say. Generally distributed. Waddington, Aug (Woodr); Old Forge (Ndm); Axton (M&H); Mt. Marcy and Keene Valley (Not); Keeseville,

Je, Aug, *Sheraton* (Calv); Mooers, Sep (*Not*); Saranac Inn, Jl (Ndm); Squaw I. and along Niagara R., May–Sep, *EPV* (Kellicott); Niagara, *Slosson* (Calv); Castile, *Brad* (Ndm); Ithaca, Jl–Aug (Bks); Saratoga L., Aug (Calv); many ponds in Delaware, Ulster, and Sullivan Counties, Jl (Calv); Dobbs Ferry, Je, Aug, *Willn* (Calv); Bronxville, Jl (Woodr); Central Pk. in NYC, Jl (Woodr); **SI:** May–Sep (Ds); Annadale, Je (Troop); **LI:** Mecox Bay and Bridgehampton, Aug (Calv).

ANOMALAGRION Selys

A. hastatum Say. Keeseville, Jl, *Sheraton* (Calv); Ithaca (Ndm); NYC (Bt); Bronxville, Jl, *Woodr* (Ds); **SI,** Jl–Nov (Ds); **LI:** Gardiners I., Jl–Aug (Ds).

SUBORDER ANISOPTERA

FAMILY AESCHNIDAE

TACHOPTERYX Selys

T. thoreyi Hagen. Portage, Je (Ds); Coy Glen, Ithaca, Je (DtAS); McLean (Kennedy); West Pt., Je (Ds); Ft. Montgomery, Jl, *Schott* (Ds); Ramapo, Je, *Watson* (Ds).

CORDULEGASTER Leach

C. diastatops Selys. Ithaca and McLean, May–Jl (Ndm, DtAS).

C. erroneus Hagen. Keene Valley (NYS); Ithaca, Je (DtAS).

C. maculatus Selys. Keene Valley (Comstock); Axton, Je (M&H); Saranac Inn, Jl (Ndm); Ramapo, May (Ds); Bronxville, Je, *Woodr* (De); Nyack, Je (Ds); **SI,** May–Je (Ds); **LI:** Yaphank, May, *Eng* (Ds).

C. obliquus Say. Pine I., Je (Ds); Bronxville, May–Je (Woodr); Bronx Pk., Je (Ds); Van Cort. Pk., Je, *Watson* (Ds).

GOMPHOIDES Selys

(*Progomphus* Selys)

G. obscura Ramb. **LI:** Wading R. and Deep Pond, Je–Aug (Ds).

HAGENIUS Selys

H. brevistylus Selys. Old Forge (Ndm); Saranac Inn, Je (Ndm); Parish, Aug (Kellicott); Rochester (Moore); Ithaca (Bks–CU); L. George (Sib); **LI,** *Eng* (Ds).

OPHIOGOMPHUS Selys

O. aspersus Morse. Saranac Inn, Je–Jl (Ndm); Van Cort. Pk., Bronx, Je (Ds).

O. carolus Ndm. Castile, *Brad* (Ndm); Ithaca, May, *Yg, Martin* (Ndm); W. Danby, Je, abundant (Kennedy); Schoharie, Je (Not).

O. johannus Ndm. Wilmurt (Ndm–CU).

O. mainensis Pck. Keene Valley, 1000 ft. (NYS).

O. rupinsulensis Walsh. Ithaca (Bks), Je, *Martin* (Ndm); Schoharie (Selys–NYS); Callicoon, Jl (Ds).

LANTHUS Needham

L. albistylus Selys. Bear Swamp, Ramapo Mts., close to state line, Je, *C.E. Sleight* (Ds).

L. parvulus Selys. Indian Pass, Adirondacks, Jl, *Watson* (Ds); Ithaca (Bks, Ndm); E. Jewett, Aug (Ds); Portage, Je (Ds); Ramapo, May (Ds).

GOMPHUS Leach

G. abbreviatus Hagen. Fall Cr., Ithaca, Je (Ndm); Greenwood L., Je, *Schott* (Ds).

G. adelphus Selys. Bethlehem, Je (Selys); Kenwood, Je (NYS); Coeymans, Sep (Lint).

G. amnicola Walsh. Bethlehem, Jl (Willn).

G. borealis Ndm. Saranac Inn (Ndm).

G. brevis Selys. Axton, Je (M&H); Saranac Inn, Je–Jl (Ndm); Schoharie, *Lint* (Hagen).

G. cornutus Tough. McLean Res., *Sib* (Ndm).

G. descriptus Bks. Saranac Inn (Ndm); Ithaca, May (Bks), May–Je (Ndm); W. Danby, May (Ds); McLean, May, *Hd* (Ndm).

G. exilis Selys. Axton, Je (M&H); Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je–Jl (Ndm); Rochester (Moore); Ithaca, Je–Jl (Bks); L. George, Je (Ndm); Cinnamon L., Jl 12 (Ndm); Coeymans, Sep (Felt); West Pt., Je (Ds); Pine I., Je (Woodr); Bronxville, Je (Woodr); **SI**, May–Jl (Ds); **LI**: Wading R., Je (Ds).

G. fraternus Say. Niagara R., Je, *EPV*, *Schaum* (Kellicott, Hagen).

G. furcifer Hagen. Ithaca (Ndm–CU).

G. lividus Selys. Ithaca, May (Ndm); McLean, May (Ds); Pine I., Je (Ds); Bronxville, May–Je, *Woodr* (Ds).

G. notatus Ramb. Rochester (Moore).

G. plagiatus Selys. Bethlehem, Sep (Calv); L. George, Aug (Ndm); **LI**, *Olsen* (Ds).

G. quadricolor Walsh. Ithaca (Ndm); Schoharie, Je (Not).

G. scudderi Selys. Saranac Inn, Je–Aug (Ndm); Ithaca, upper Cascadilla Cr., Jl (Kennedy).

G. spicatus Hagen. Axton, Je (M&H); Old Forge, Je–Jl (Ndm); Saranac Inn, Je–Jl (Ndm); Clarence, Jl, *EPV* (Kellicott); Black Rock Harb., Je, *EPV* (Kellicott); Ithaca (Mary Lyon); Cinnamon L., Jl 12 (Ndm); Slide Mt., Je (Woodr). Taken in a tamarack swamp (Ndm).

G. spiniceps Walsh. Ithaca (Ndm); Bethlehem, Sep, *Willn* (Lint–MCZ); Albany (Willn–MCZ).

G. vastus Walsh. "NY" (Hagen).

G. ventricosus Walsh. Old Forge (Ndm); Pine I., Je (Ds).

G. villosipes Selys. Grand I., *Fischer* (Kellicott); Ithaca, May (Ndm, Bks); Pine I., Je (Woodr); **SI**: Ft. Wadsworth, Je 18 (Ds).

DROMOGOMPHUS Selys

D. spinosus Selys. Old Forge (Ndm); Baldwinsville, *Pettit* (Bks); Castile, *Brad* (Ndm); Canandaigua L., Je (Herr); Ithaca (?) (Bks–CU); Schoharie, Je (Not); Karner, Je (Hagen); White L., Sullivan Co, Aug (Calv); Pine I., Je (Ds); Van Cort. Pk., Jl, *Watson* (Ds).

BOYERIA McLachlan

B. grafiana Willn. Old Forge, Aug, *Willn* (Ndm); E. Jewett, Aug (Ds); Ft. Montgomery, Sep (Schott).

B. vinosa Say. Waddington, Jl (Woodr); Old Forge, Aug (Ndm); Keeseville, Jl, *Sheraton* (Calv); Saranac Inn, Je (Ndm); Piseco L., Aug (Calv); Parish, Aug (Kellicott); Colden, Aug, *EPV* (Kellicott); Ithaca, Jl (Bks); Schoharie (Calv); Elk L., Aug (Calv); **SI,** Jl–Aug (Ds); **LI:** Yaphank, Jl, Sep (Ds); Smithtown, Aug (Ds).

BASIAESCHNA Selys

B. janata Say. Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je–Jl (Ndm); Conesus L., Je (Ds); Etna, May (DtAS); Ithaca, bred (Ndm); L. George, Je (Ndm); West Pt., Je (Ds); Pine I., Je (Ds); Ramapo, Je (Ds); Hillburn, May, *Schott* (Ds); Brewster, Jl 12 (Ndm); Bronxville, Je, *Woodr* (Ds); **SI,** May (Ds); **LI:** Yaphank, May–Je (Ds).

GOMPHAESCHNA Selys

G. furcillata Say. Rochester (Moore); Ringwood Hollow near Ellis, Je (Mrs Ndm); May, abundant (Kennedy); Freeville, McLean, and Ithaca, Je (DtAS); West Pt., Je (Ds); Nyack, Je (Ds); Ramapo, Je (Ds); **LI:** Yaphank, May–Je (Ds).

ANAX Leach

A. junius Dru. Generally distributed and common. Keene Valley (Comstock); Old Forge, Je (Ndm); Saranac Inn (Ndm); Olcott, Je–Sep (DtAS); Buffalo, Je–Jl, *EPV* (Kellicott); Caledonia Cr., Dec, *Lint* (Hagen); Ithaca, (Bks); McLean, Je–Sep (DtAS); Schoharie (NYS); Coeymans, Aug (Felt); Cinnamon L., Jl 12 (Ndm); many lakes and ponds in Ulster, Sullivan, and Greene Counties, Jl–Aug (Calv); Bronxville, Je–Jl (Woodr); **SI,** Ap–Oct (Ds); **LI** (Weeks).

A. longipes Hagen. Not common. **SI:** not uncommon near Moravian Cemetery (Ds); Clove Valley, Je, Aug (Ds); **LI:** Wyandanch, Je (Ds); Long Pond, Wading R., Je (Ds).

AESCHNA Fabricius

A. canadensis Wlk. L. St. Regis, Franklin Co, Sep (Wlk); Ithaca, Aug (Wlk); **SI,** Je (Ds).

A. clepsydra Say. Waddington, Aug (Woodr); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Saranac Inn, latter part of summer (Ndm); Ithaca, Aug (Bks); Schoharie (NYS); Albany, Je (Felt, 31st Rept., 1916, p. 98); Catskills, Aug, *Aaron* (Calv–AES); Greenwood L., Jl (Ds). **LI:** Deep Pond, Wading R., Jl (Ds).

A. constricta Say. Hotel Champlain, Sep, *Moore* (Calv); Saranac Inn, Je–Aug (Ndm); Olcott, Aug–Sep (DtAS); Buffalo, Jl, *EPV* (Kellicott); Ithaca, Jl–Sep (Bks, DtAS); N. Spencer, Aug (DtAS); Watkins Glen, *Slosson* (Calv); Schoharie (NYS); Catskills, Aug, *Aaron* (Calv); Dobbs Ferry, Aug–Sep, *Willn* (Calv); Bronxville, Jl, *Woodr* (Ds); NYC (Bt); **SI,** Je, Sep–Oct (Ds); **LI:** Flatbush, Sep (Ds).

A. eremita Scud. Loch Bonnie, Adirondacks, Sep; Saranac Inn, Jl (Wlk).

A. interrupta Wlk. Franklin Co, Sep (Wlk); Catskills, Aug.

A. tuberculata Wlk. Castile, *Brad* (Ndm).

A. umbrosa Wlk. L. St. Regis, Franklin Co, Sep (Wlk); Saranac Inn, Aug (Woodr); Oneida, Aug (Wlk); Clyde, Aug (Wlk); Naples, Aug 14 (Bish); Ringwood, Jl (DtAS); Albany, Oct (Felt); Catskills, Aug (Wlk); Cairo, Aug (Wlk); Ellenville, Aug (Wlk); West Pt., Sep (Wlk); Dobbs Ferry, Aug (Wlk); Bronxville, Jl–Oct, *Woodr* (Ds); NYC, Sep (Woodr); **SI**, Aug–Oct (Ds); **LI**: Yaphank, Oct (Ds); Pinelawn, Sep (Ds); Rockaway, Sep (Woodr).

A. verticalis Hagen. N. Spencer, Aug (DtAS); Caledonia Cr. (Hagen); Schoharie (NYS); Mooers, Sep (*Not*); NYC (Bt); **SI**: Je–Oct (Ds); Clove Valley, Oct (Ds); **LI**: Brooklyn, Jl–Sep, *Eng* (Ds); Cold Sp. Harb., Aug, *Brb* (Ds), Sep (Wlk).

NASIAESCHNA Selys

N. pentacantha Ramb. Baldwinsville, Je, *Pettit* (Bks).

EPIAESCHNA Hagen

E. heros Fab. Lewis Co (NYS–Hill); Buffalo, Je–Jl, *EPV* (Kellicott); Rochester (Moore); Batavia, Je (Ds); Ithaca, Je (Bks–CU); Albany, Je (NYS); Ft. Edward, Je, *King* (Lint); Stuyvesant Falls (NYS); West Pt., Je (Ds); Dobbs Ferry, Aug, *Willn* (Calv); commonly seen in NYC (Woodr); **SI**, May, Aug (Ds); **LI**: Rockaway Beach, Aug 17, 1916, many drowned (Ds); Orient, Aug, *Lath* (Ds).

FAMILY LIBELLULIDAE

DIDYMOPS Rambur

D. transversa Say. Keeseville, Je, *Sheraton* (Calv); Saranac Inn, Je (Ndm); Old Forge, Je (Ndm); Conesus L., Je (Ds); Ithaca, Je–Jl (Bks); L. George, Je (Ndm); Ramapo, Je (Ds).

MACROMIA Rambur

M. illinoiensis Walsh. Saranac Inn (Ndm); Oswego Co, Je (Willn–US); Grand I., *Fischer* (Kellicott); Buffalo, Jl (*EPV*); Taughannock, Aug (DtAS); L. George, Je (Ndm); Albany, Jl (Ds); Pine I., Je (Ds); Ft. Montgomery, May (Ds); Ramapo, Je (Ds).

EPICORDULIA Selys

E. princeps Hagen. Waddington, Aug (Woodr); Saranac Inn (Ndm); Black Rock Harb., Je–Jl, *EPV* (Kellicott); Rochester (Moore); Ithaca, Je (Bks–CU); McLean, Jl (DtAS); Albany, Jl (Lint); Kenwood (NYS); Greenwood L., Je–Jl, *Watson* (Ds); Benmar L., near Brewster (Ndm); Pine I, Je (Ds); NYC, Je, *Woodr* (Ds).

NEUROCORDULIA Selys

N. obsoleta Say. L. George, Je, Aug (Ndm); Benmar L., near Brewster (Ndm); White L., Sullivan Co (Calv).

HELOCORDULIA Needham

H. uhleri Selys. Saranac Inn (Ndm); N. Fair Haven, Jl (Ndm); Greenwood L., May, *Schott* (Ds).

TETRAGONEURIA Hagen

T. canis McL. Saranac Inn, Je (Ndm).

T. cynosura Say. Old Forge (Ndm); Saranac Inn (Ndm); Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Olcott, May, Aug (DtAS); Ithaca (Bks); Canandaigua (Herr); L. George (Calv–AES); West Pt., Je (Ds); Pocantico Hills, Je, *Woodr* (Ds); Benmar L., near Brewster (Ndm); Pine I., Je (Woodr); Tuxedo, May–Je (Woodr); NYC, Je, *Woodr* (Ds); **SI**, Je–Jl, *Ds* (Calv).

T. cynosura var. **simulans** Mutt. Axton (M&H); Saranac Inn, Je (Ndm); Baldwinsville, *Pettit* (Bks); Black Rock Harb., Je, *EPV* (Kellicott); Ithaca (?) (Bks–CU); L. Mohonk and Pine I., Je (Woodr); Ramapo, May–Je (Ds); Benmar L., near Brewster (Ndm).

T. spinigera Selys. Saranac Inn, Je (Ndm); Oswego, May (Mutt); Buffalo, May, *EPV* (Kellicott); Castile, *Brad* (Ndm); Ithaca, Je (Ndm); Albany, Sep (NYS).

DOROCORDULIA Needham

D. lepida Hagen. Albany (Selys); Burnt Hill and Mud Ponds, and Amber L., Sullivan Co, Jl–Aug (Calv); **SI:** Eltingville, Je (Ds); **LI:** Wading R., Je (Ds).

D. libera Selys. N. Elba, Jl (Ds); Saranac Inn, Jl (Ndm); Catskills (Calv–AES); Cinnamon L., Jl 12 (Ndm); West Pt., Je (Ds); Bronxville, May, *Woodr* (Ds); NYC, May, *Woodr* (Ds); **SI:** Ft. Wadsworth, Je 18 (Ds); **LI:** Deep Pond, Wading R., Je (Ds); Wyandanch, Je (Ds).

WILLIAMSONIA Davis

W. lintneri Hagen. Karner, May, *Lint* (Hagen).

CORDULIA Leach

C. shurtleffi Scud. Old Forge (Ndm); Saranac Inn, Jl (Ndm); Cinnamon L., Jl 12 (Ndm); Catskills, Je (Eng); Slide Mt., Je (Ds); Tunis L., Ulster Co, Je (Calv); Oliverea, Je (Ds).

SOMATOCHLORA Selys

S. albicincta Burm. Mt. Marcy, Jl, *Not* (Ds); L. Tear, Jl, *Watson* (Ds).

S. elongata Scud. Ithaca, Je (Bks–CU), reared Ap, *Kennedy* (Wlk).

S. linearis Hagen. Grand I., *Fischer* (Kellicott); Oswego Co, Aug (Kellicott); Varna and Ithaca (Ndm); **SI:** Green Ridge, Jl–Aug (Ds).

S. minor Calv. Harrietstown, Jl, *R. P. Currie* (Wlk).

S. semicircularis Selys. Wilmington, Adirondacks, Jl, *Ds* (Willn).

S. tenebrosa Say. Oswego Co, Aug (Kellicott); N. Fair Haven, Jl, *Kennedy* (Wlk); Clarence, Jl, *EPV* (Kellicott); E. Jewett, Aug (Ds); Mt. Joy, Ramapo Mts., Aug (Ds); West Pt., Sep (Wlk); **LI:** Hauppauge and Wyandanch, Aug (Ds).

S. walshii Scud. Keene Valley, Aug (Calv); Chilson L. (Ds); Castile, Aug 23, 1924, *Brad* (Ndm); Ellis Hollow, Ithaca, Aug, *Kennedy* (Wlk).

S. williamsoni E. M. Wlk. Bone Pond, Saranac Inn, Jl (Ndm); Fair Haven, Jl, *Kennedy* (E. M. Wlk).

LADONA Needham

L. deplanata Ramb. **LI:** Amityville, Je, *Bather* (Ds); Wyandanch, Ap (Ds); Wading R., Je (Ds).

L. exusta Say. L. George (Calv–AES); Croton-on-Hudson, Jl; West Pt., Je (Ds); Ramapo, Je (Ds); **SI,** Je (Ds).

L. julia Uhler. Axton, Je (M&H); Saranac Inn, Je (Ndm); Cinnamon L., Jl 12 (Ndm).

LIBELLULA Linnaeus

L. auripennis Burm. NYC (Bt); **SI,** May–Jl (Ds); **LI:** Deep Pond, Wading R., Je–Aug (Ds); Coney I. (Ds); Greenport, Aug (Ds); Shelter I., Aug (Ds).

L. axillena Westw. **SI:** Buck's Hollow, May (Ds).

L. cyanea Fab. Riverdale, Jl, *Woodr* (Ds); NYC (Bt); Bronxville, Je–Jl, *Woodr* (Ds); **SI,** Je–Aug (Ds); **LI:** Flushing, Aug (Ds); Yaphank, Jl (Ds); Wading R., Je (Ds); Half Way Hollow Hills, Jl (Ds).

L. flavida Ramb. NYC (Bt); **LI:** Long Pond, Wading R., Je (Ds); Riverhead, Jl (Ds).

L. incesta Hagen. Croton-on-Hudson, Je (Ds); Amber L. and Stump Pond, Sullivan Co, Aug (Calv); Ramapo, Je (Ds); **LI:** Yaphank, Jl (Ds); Wading R. and Long Pond, Aug (Ds); Riverhead, Aug (Ds).

L. luctuosa Burm. (*basalis* Say). Old Forge and Saranac Inn (Ndm); Olcott, Je–Aug (DtAS); Niagara R. and Tonawanda Cr., Je–Jl, *EPV* (Kellicott); Danby, Je–Aug (DtAS); Ithaca, Aug (Ndm); Kenwood (NYS); Dobbs Ferry, Jl, *Willn* (Calv); Bronxville, Jl, *Woodr* (Ds); Van Cort. Pk., Jl (Ds); **SI,** Je–Aug (Ds); **LI:** Flushing, Aug (Ds); Wading R., Je (Ds).

L. pulchella Dry. Ponds everywhere (Ndm). Saranac Inn and Old Forge (Ndm); Keeseville, Jl–Aug, *Sheraton* (Calv); Axton, Je (M&H); Keene Valley (Comstock); Olcott, Jl–Aug (DtAS); Buffalo, Je–Aug, *EPV* (Kellicott); Portage, Je (Ds); Ithaca (Ndm); McLean, Jl–Aug (DtAS); many ponds and lakes in Delaware, Ulster, Sullivan, and Greene Counties, Jl–Aug (Calv); Schoharie (NYS); Dobbs Ferry, Je–Jl, *Willn* (Calv); Bronxville, Jl, and NYC, Je (Woodr); **SI,** May–Sep (Ds); **LI:** Coney I., Aug (Weeks); Wyandanch, Jl (Ds); Wading R., Je (Ds); Bridgehampton, Aug (Calv).

L. quadrimaculata L. Saranac Inn (Ndm); Wilmington, Jl (Ds); Portage, Je (Ds); Olcott, Jl–Aug (DtAS); Buffalo, *EPV* (Kellicott); Ithaca (Bks–CU), Jl–Aug (DtAS); Schoharie (NYS); Karner, May (NYS); Ellenville (Ndm); Bronxville, Je–Jl, *Woodr* (Ds); **SI,** May–Je (Ds).

L. semifasciata Burm. Rochester (Moore); Buffalo, Je–Jl, *EPV* (Kellicott); Dobbs Ferry, Jl, *Willn* (Calv); Bronxville, May–Jl, *Woodr* (Ds); **SI,** Ap–Sep (Ds); **LI:** Yaphank, Jl (Ds); Wading R., Je (Ds); Aqueduct, Jl (Ds); Rockaway, Je (Woodr).

L. vibrans Fab. **SI,** Je–Aug (Ds).

PLATHEMIS Hagen

P. lydia Dry. (*trimaculata* DeG.). Generally distributed. Keene Valley (Comstock); Old Forge (Ndm); Fairmount, Je (Felt); Olcott, Je–Jl (DtAS); Buffalo, *EPV* (Kellicott); Portageville, Je (Ds); Ithaca (Bks); Brookton (Theresa M. Robinson); Schoharie (NYS); Albany, Je (Felt, Lint–NYS); Stuyvesant Falls (NYS); Beaver Br., Sullivan Co, and Cairo, Aug (Calv); Dobbs Ferry, Je, *Willn* (Calv); NYC (Bt); Bronxville, Je, Van Cort. Pk., *Woodr* (Ds); **SI,** May–Sep (Ds); **LI:** Wyandanch and Yaphank, Jl (Ds); Flushing, Aug (Ds); Bridgehampton, Aug 18 (Calv).

PERITHEMIS Hagen

P. tenera Say. Tarrytown, Jl, *Woodr* (Ds); Benmar L., near Brewster (Ndm); Van Cort. Pk., Jl, *Woodr* (Ds); Bronxville, Jl–Aug, *Woodr* (Ds); NYC (Bt); **SI**, Je–Jl (Ds); **LI**: Wading R. and Long Pond, Aug (Ds); Shelter I., Aug (Ds); Flushing, Aug (Ds); Prospect Pk. L., Brooklyn, Aug (Ds).

NANNOTHEMIS Brauer

N. bella Uhl. Mt. Marcy, 5000 ft., *Not* (Ds); NYC (Bt); **SI**: Four Corners, Je–Jl (Ds); **LI**: Yaphank and Wyandanch, Jl (Ds).

ERYTHRODIPLAX Brauer

E. berenice Dry. Thousand Isls., *Slosson* (Calv); NYC (Bt); Riverdale, Jl, *Woodr* (Ds); **SI**, May–Aug (Ds); **LI**: Sheepshead Bay, Jl (Calv); Aqueduct, Jl (Woodr); Rockaway Beach, Jl–Aug (Ds); Flushing and Cold Sp. Harb., Jl–Aug, *Brb* (Ds); Orient, Jl, *Lath* (Ds), and Shelter I., Aug (Ds); Gardiners I., Aug (Ds).

ERYTHEMIS Hagen

E. simplicicollis Say. Saranac Inn (Ndm); Tonawanda R., Aug, *EPV* (Kellicott); Rochester (Moore); Olcott, Je–Jl (DtAS); Ithaca (Ndm); NYC (Bt); **SI**, May, Jl–Sep (Ds); **LI**: Wading R., Aug (Ds); Yaphank, Jl (Ds); Riverhead, Aug (Ds); Flushing, Aug (Ds); Bridgehampton, Aug (Calv).

SYMPETRUM Newman

S. corruptum Hagen. Rochester (Moore); Buffalo, *EPV* (Kellicott); **SI**: shore at Ellingville, May (Ds); New Dorp, Aug, and Dongan Hills, Sep (Ds).

S. costiferum Hagen. Saranac Inn, Aug (Ndm); Amherst, Sep, *EPV* (Kellicott); **LI**: Wyandanch, Aug, Long Pond, Wading R., Jl–Aug, Riverhead, Aug (all Ds).

S. decisum Hagen. (See footnote under *S. rubicundulum.*)

S. obtrusum Hagen. Waddington, Aug (Woodr); Mt. Marcy, Je (NYS); Keene Valley, Jl–Aug (Calv); Saranac Inn (Ndm); Piseco and Elk Lakes, Aug (Calv); Hastings, Aug–Sep (Kellicott); Clarence, Jl, *EPV* (Kellicott); Elma, Sep, *EPV* (Kellicott); Karner (NYS); **SI**, Je–Jl (Ds).

S. rubicundulum Say.[10] Keeseville, Jl, *Sheraton* (Calv); Saranac Inn (Ndm); Keene Valley (Comstock); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Olcott and Howland I., Je–Jl (DtAS); Buffalo, Je–Sep, *EPV* (Kellicott); Ithaca (Bks); Danby and McLean, Je–Jl (DtAS); ponds in Sullivan Co, Jl–Aug; Cairo, Aug (Calv); Dobbs Ferry, Jl, *Willn* (Calv); Bronxville, Jl (Woodr); NYC (Bt); **SI**, Jl–Sep (Ds); **LI**: Coney I., Aug (Weeks); Gardiners I., Aug (Ds).

S. semicinctum Say. Waddington, Aug (Woodr); Keene Valley (Not); Olcott, Aug (DtAS); Castile, *Brad* (Ndm); Ithaca, Aug (Ndm); L. George, Aug (Ndm); Cairo, Aug (Calv); Riverdale, Jl, *Woodr* (Ds); Croton, Jl (Ds); Bronxville, Aug, *Woodr* (Ds); Van Cort. Pk., Aug (Ds); **SI**, Jl–Sep (Ds); **LI**: Long Pond, Wading R., and Riverhead, Aug (Ds).

S. vicinum Hagen. Keeseville, Jl–Aug, *Sheraton* (Calv); Saranac Inn (Ndm); Piseco L., Aug (Calv); L. St. Regis, Franklin Co, Sep, *Moore* (Calv); Pt. Abino. *EPV* (Kellicott); Olcott, Sep (DtAS); Ithaca, Jl–Aug (Ndm);

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[10] "Some of these records doubtless belong to *S. decisum* which has been constantly confused with *S. rubicundulum.*"—E. M. WALKER.

Saratoga L., Aug (Calv); Schoharie (Hagen); Catskills, Aug (Calv–AES); Catskill L. and Cairo, Aug (Calv); Alder L., Ulster Co, Je; ponds in Sullivan Co; West Pt., Oct (Ds); Dobbs Ferry, Nov, *Willn* (Calv); NYC (Bt); Bowling Green, NYC, Oct (Ds); **SI**, Sep–Nov (Ds); **LI**: Yaphank, Oct (Ds). Low wet meadows and along small streams.

PACHYDIPLAX Brauer

P. longipennis Burm. Black Rock Harb., Je, *EPV* (Kellicott); Rochester (Moore); Olcott, Jl (DtAS); Ithaca (Bks); Dobbs Ferry, Jl, *Willn* (Calv); Benmar L., near Brewster (Ndm); Riverdale, Jl, *Woodr* (Ds); Bronxville, Je (Woodr); NYC (Bt); **SI**, May–Sep (Ds); **LI**: Forest Pk., Brooklyn, Je (Ds); Flushing, Aug (Ds).

LEUCORHINIA Brittinger

L. frigida Hagen. Adirondacks, near Redfield Mt., Jl (Beq); L. Tear, Jl, *Watson* (Ds); Old Forge (Ndm); Knapp, Hunter, Mud, and Cranberry Ponds, Sullivan Co, Aug (Calv); **SI**: Tottenville, May (Ds); **LI**: Deep and Long Ponds, Wading R., Je (Ds).

L. glacialis Hagen. Old Forge (Ndm); Saranac Inn, late Je–early Aug (Ndm).

L. hudsonica Selys. Mt. Marcy, 4500 ft. (Not); Old Forge (Ndm).

L. intacta Hagen. Waddington, Aug (Woodr); Keeseville, Jl, *Sheraton* (Calv); Rochester (Moore); Olcott, Je–Jl (DtAS); Niagara R. and Black Rock Harb., Je–early Jl, *EPV* (Kellicott); Portage, Je (Ds); Ithaca (Ndm); McLean and Freeville (Ndm); Danby (DtAS); Karner, Jl (Hagen); Croton-on-Hudson, May, *Ds* (Calv); Cinnamon L., Jl (Theresa M. Robinson); Folwood L., Sullivan Co, Je (Calv); Benmar L., near Brewster (Ndm); Bronxville, Je, *Woodr* (Ds); NYC, May–Je, *Woodr* (Ds); **SI**, May–Aug (Ds); **LI**: Rockaway and Wading R., Je (Ds).

CELITHEMIS Hagen

C. elisa Hagen. Axton, Je (M&H); Ithaca, *Morgan* (Bks); ponds in Sullivan Co, Jl–Aug (Calv); West Pt., Je (Ds); Tarrytown, Jl, *Woodr* (Ds); Pocantico Hills, Je (Woodr); NYC (Bt); Bronxville, Je, *Woodr* (Ds); **SI**, Je–Aug (Ds); **LI**: Yaphank, (Ds); Wading R., May–Je, Aug (Ds); Flushing, Aug (Ds); Montauk, Aug (Ds).

C. eponina Drury. Lake Bluff, Wayne Co (NYS); Tarrytown, Jl (Woodr); NYC (Bt); **SI**, May–Aug (Ds); **LI**: Flushing and Cold Sp. Harb., Aug (Ds).

C. monomelaena Willn. **LI**: Wading R., Je–Aug, and Riverhead, Aug (Ds).

C. martha Willn. (*ornata* Ramb.). **LI**: Yaphank, Jl–Aug (Ds); Wyandanch, Aug (Ds); Wading R. and Long Pond, Aug (Ds); Riverhead, Aug (Ds). A species of the pine-barren regions of LI (Ds).

PANTALA Hagen

P. flavescens Fab. Rochester (Moore); Bronxville, Jl (Woodr); **SI**, Jl–Sep (Ds).

TRAMEA Hagen

T. carolina L. Schoharie (NYS); NYC (Bt); Bronxville, May, *Woodr* (Ds); **SI**, Ap–Oct (Ds); **LI**: Yaphank, Jl (Ds); Wading R., Aug (Ds); Bridgehampton, Aug (Calv).

T. lacerata Hagen. Rochester (Moore); Buffalo, Aug, *EPV* (Kellicott); Freeville, May (Bks); West Pt., Je (Ds); **SI**, May–Oct (Ds).

ORDER PLECOPTERA

Compiled by J. G. NEEDHAM and P. W. CLAASSEN

FAMILY PTERONARCIDAE

PTERONARCYS Newman

P. dorsata Say. "NY" (LucyW.Smith).
P. nobilis Hagen. General throughout NY, and ranging from Canada to Ga (*Ndm*).
P. proteus Newm. Trenton Falls; Ithaca.
P. biloba Newm. Trenton Falls; Ithaca.
P. comstocki Smith. Trenton Falls; Wilmurt; Tarbel, *Ds.*

FAMILY PERLIDAE

PERLODES Banks

P. lineata Smith. Old Forge, Aug (*Ndm*).

ISOGENUS Newman

I. frontalis Newm. Niagara Falls, Je.

PERLA Geoffroy

P. postica Wlk. Fall Cr., Ithaca, May (Ndm); Ft. Montgomery, May.
P. hastata Bks. Axton, Je (M&H); Old Forge, Aug (*Ndm*); Woodworth's L., Je, *Alex*; Easton, May, *Leon*; Ringwood Hollow, near Ellis, May, *Wu.*
P. bilobata Ndm. & Claas. Old Forge, Jl (*Ndm*).
P. capitata Pict. West Branch of Ausable R., Essex Co, Jl (*Claas*); Ogdensburg, Jl, *Bet*; Gloversville, Je, *Alex*; N. Fair Haven; Clyde, Jl; West Falls, Jl; Ithaca, May–Jl; McLean, Je; Malloryville, Je; Binghamton, Jl; Nassau, Je.
P. ramosa Ndm. & Claas. Ithaca (CU).
P. immarginata Say. Keene Val., Aug; Wilmington, Aug; Mt. Whiteface, Aug; Ogdensburg, Jl; Hamilton Co; Enfield; Gloversville, Je, *Alex*; Ithaca, Mar–Sep; Coy Glen, Ithaca, Jl; Ludlowville, Aug.
P. media Wlk. Ogdensburg, Jl; Crane Pond, Je; Wilmurt, Je; Mayfield, Je, *Alex*; Oswego, Je; Fulton, Je; Niagara Falls, Jl; Buffalo, Jl; Ithaca, May.

ALLOPERLA Banks

A. marginata Bks. Colden, Jl (Bks); Ithaca, Je, *Sib.*
A. lateralis Bks. Gloversville, Je, and Woodworth's L., Je, *Alex*; Mix Cr. Val., Cattaraugus Co, Je; Ithaca, May–Je; De Ruyter, Je; Danby, Je; Ramapo, Je.
A. mediana Bks. Newport, May; Cranberry L., Jl (Drk); Gloversville, Je, *Alex*; Clinton, May, *Powell*; Enfield Falls and Ithaca, May; Niagara Falls, Je.
A. imbecilla Say. Alcohol Br., Adirondack Lodge, Jl; Sacandaga Pk., Je; Newfield, Je.
A. nanina Bks. West Branch, Ausable R., Jl; Elizabethtown, Jl; Adirondack Lodge, Jl; Ithaca, May–Jl; Oxford, Jl.

CHLOROPERLA Newman

C. cydippe Newm. Sport I., Je, *Alex*; Hamburg, Jl; Ithaca, Je; Newfield.

NEOPERLA Needham

N. clymene Newn. Charlotte, Je; West Falls, Jl; Martinsburg, Jl (Sib); Ithaca, Je–Sep; Ancram, Je; Ft. Montgomery, Jl.

CLIOPERLA Needham and Claassen

C. similis Hagen. Moore's Br., near Ithaca, May, *Sib*; Ringwood Hollow, near Ellis, Ap (*Claas*).

C. annecta Ndm. & Claas. Black Br., Je, *Cy*.

ISOPERLA Banks

I. signata Bks. Elizabethtown, Jl (*Claas*); Clinton, May, *Powell*; Woodworth's L., Je, *Alex*; Buffalo, Jl; Ithaca, May–Je; Ringwood, May (Dt); Greene Co, Je.

I. bilineata Say. A common eastern species, found everywhere in small streams. Ithaca, Je–Aug.

I. montana Bks. Ogdensburg, Jl; Gloversville, Je, *Alex*; Lakeside, Je; Ithaca, May–Je (Ellis); Coy Glen, Je; Slaterville, Je; Enfield, May; Moore's Br., near Ithaca, May, *Sib*; Taughannock Falls, May (Dt); Newfield, Je.

PERLESTA Banks

P. placida Hagen. Youngstown, Jl, *Alex*; Ithaca, May–Aug.

ATOPERLA Banks

A. ephyre Newm. Canandaigua L., Naples, Jl, *Leon*; Ithaca, Je–Jl.

PERLINELLA Banks

P. drymo Newm. Deer R., May; Sport I., Sacandaga R., Je, *Alex*; Ithaca, May–Jl.

PELTOPERLA Needham

P. cornelia Ndm. and Smith. Ramapo, May (Ds).

P. arcuata Ndm. Ithaca, Je (Pettit–CU).

ACRONEURIA Pictet

A. abnormis Newn. Keene Val., Je; Oswegatchie; North Cr., Jl; Sacandaga Pk., Je, *Alex*; Ithaca, Je–Aug; Greene Co, Je.

A. arenosa Pict. Ithaca, Jl; **LI.**

A. trijuncta Wlk. Juanita I., L. George.

A. arida Hagen. Ithaca, Je.

A. lycorias Newn. Artist's Br., Chapel Pond, Essex Co, Je (Claas); Gloversville, Je, *Alex*; Castile; Colden, Je (EPV); Otto, Je; McLean Bogs, Je; Ithaca, May–Jl; The Hermitage, Cayuga L. (Bet); Trenton Falls, type locality; Ft. Montgomery, May; Ramapo, May.

FAMILY NEMOURIDAE

NEMOURA Latreille

N. divergens Claas. Clinton, Mar (Powell–CU); Ithaca, Ap.

N. sinuata Wu. Alcohol Br., Adirondack Lodge, Jl; Newcomb, Jl; Cranberry L., Je, *Drk*; Old Forge, Jl–Aug; Gloversville, Je; Ithaca, Je–Aug (CU); Etna; McLean; Greene Co.

N. venosa Bks. Alcohol Br., Adirondack Lodge, Jl (*Claas*); Newport, May; Cranberry L., Je, *Drk*; Old Forge, Je (*Ndm*); Woodworth's L., Je–Aug, *Alex*; Colden, Je (Bks); Ringwood, Je; Enfield Glen, May; McLean, Je; W. Danby, Je (MacG).

N. trispinosa Claas. Mud Cr., Tompkins Co, Je (CU); McLean, Je.

N. vallicularia Wu. Ilion, Mar; Clinton, Ap; Ithaca, Ap–May (CU); Nassau, Mar; Mosholu, Mar.

N. serrata Claas. Cranberry L., *Drk* (CU).

N. punctipennis Claas. Axton, Je (M&H); Old Forge, Je.

LEUCTRA Stephens

L. decepta Claas. Old Forge, Je; Ringwood, Je (CU).

L. duplicata Claas. Adirondack Lodge, Je; Axton, Je (M&H); Woodworth's L., Je; Labrador L., *Cy*; Chipmunk Swamp, Vandalia, Je; Ringwood, May.

L. hamula Claas. Mt. Marcy, Aug; Old Forge, Jl (CU); Sacandaga Pk., *Alex*; Woodworth's L., Je.

L. sibleyi Claas. Moore's Br., Ithaca, May (Sib); Taughannock, May.

L. tenuis Pict. Wilmington; Saranac Inn, Jl; Woodworth's L., May, *Alex*; West Falls.

L. triloba Claas. McLean, Sep–Oct (Jensen–CU); Ithaca, Sep.

L. truncata Claas. Old Forge, Aug (CU).

TAENIOPTERYX Pictet

T. maura Pict. Gloversville, Mar, *Alex*.

T. nivalis Fitch. Adams Center, Mar (*Claas*); Honeoye Falls, Mar, *Cy*; Pike, Mar; Ithaca, Feb–Mar; Binghamton, Ap; Albany, Mar–Ap.

T. fasciata Burm. Hamburg, Ap (EPV); Ithaca, Mar–Ap; Karner, Ap; E. Greenburgh, Ap.

FAMILY CAPNIIDAE

CAPNIA Pictet

C. vernalis Newport. Mountain L., Ap (*Claas*); Gilman L., Ap (*Claas*); Clinton, Mar, *Powell*; Coy Glen, Mar; Highland, Mar.

CAPNELLA Claassen

C. granulata Claas. Adams Center, Mar (*Claas*); Johnstown, Mar (CU); Fulton Co, *Alex*.

C. recta Claas. Ithaca, Mar (CU); Interlaken, Nov.

C. incisura Claas. Ithaca, Mar (CU).

C. vivipara Claas. Bluff Pt., Ithaca, Mar.

C. pygmaea Burm. Northville, Ap; Pike, Ap–May; Ithaca, Feb–Ap; McLean, May; Mosholu, Mar; **SI**, Feb.

ORDER CORRODENTIA

Compiled by P. J. CHAPMAN and A. M. NADLER

FAMILY PSOCIDAE

SUBFAMILY PSOCINAE

CERASTIPSOCUS Kolbe

C. trifasciatus Prov. "NY" (Bks).

C. venosus Burm. Westport, Aug (*Felt*); Newport, Aug (*Felt*); Johnstown, Aug (*Bks*); Grand Gorge, Aug (*Felt*); Ithaca, Aug (Chap–AM); Middleburg (Chap–NYS); Berne, Aug (*Felt*); Ellenville, Jl (Nad); **LI:** Quogue, Aug (*Zab*–AM).

PSOCUS Latreille

P. amabilis Walsh. Geneseo, Sep; Olcott, Sep; Barcelona, Sep; Silver Cr., Sep; Richburg, Sep; Clarksburg, Sep; Stow, Sep; Ceres, Sep; Rock City, Sep; Painted Post, Sep; Ithaca, Sep; Elmira, Oct; (all *Chap*); **LI:** Sea Cliff, Sep (*Chap*). In dead or dying leaves.

P. atratus Aaron. Sacandaga Pk., Aug, *Alex* (Bks); Painted Post, Sep (*Chap*). On tree trunks.

P. leidyi Aaron. Woodworth's L., Fulton Co, Aug, *Alex* (Bks); L. Placid, Aug, *EPV* (NYS); Fairhaven, Sep; Clarksburg, Sep; Wellsville, Sep; Richburg, Sep; Stow, Sep; Ceres, Sep; Geneseo, Sep; Hornell, Sep; Painted Post, Sep; Montour Falls, Sep–Oct; Ithaca, Sep–Oct; Elmira, Oct; McLean, Aug; Hunter, Aug (all *Chap*); Ellenville, Jl (*Nad*); Bronx, Jl, *Grossb* (Chap); **LI:** Sea Cliff, Sep (*Chap*). On tree trunks.

P. moestus Hag. Stow, Sep; Wellsville, Sep; Clarksburg, Sep; Hornell, Sep; Painted Post, Sep; Hall, Jl; Ithaca, Sep (all *Chap*); **LI:** Sea Cliff, Sep (*Nad*); Riverhead, Oct (*Chap*).

P. novaescotiae Wlk. L. Placid, Aug, *EPV* (NYS); Painted Post, Sep (*Chap*); Ithaca, Sep (*Chap*).

P. pollutus Walsh. Sacandaga Pk., Gloversville, Aug, *Alex* (Bks).

P. purus Walsh. Fairhaven, Sep (*Chap*); Ithaca, Aug, *Bks* (Chap); Cairo, Aug (*Chap*). Under loose stones and on tree trunks.

P. quietus Hag. Phoenicia, Aug, *EPV* (NYS).

P. semistriatus Walsh. **LI:** Sea Cliff, Aug (Bks).

P. stigmosalis Bks. Gloversville, Sep, *Alex* (Bks); **LI:** Sea Cliff, Sep (Nad).

P. striatus Wlk. Ithaca, Aug–Sep (US); Van Cort. Pk., Sep; **LI:** Sea Cliff, Sep (Nad).

P. variabilis Aaron. Johnstown, Aug (*Bks*); Larchmont, Jl (*Nad*).

AMPHIGERONTIA Kolbe

A. confraterna Bks. (*Psocus*). Sacandaga Pk., Je (Bks); West Barre, Sep; Little Valley, Sep; Wellsville, Sep; Rock City, Sep; Ceres, Sep; Stow, Sep; Richburg, Sep; Painted Post, Sep; (all *Chap*); Phoenicia, Aug, *EPV* (NYS); Larchmont, Jl (*Nad*).

TRICHADENOTECNUM Enderlein

T. slossonae Bks. (*Psocus*). Ithaca, Sep (Bks); Ellenville, Jl (*Nad*).

FAMILY **CAECILIIDAE**

SUBFAMILY **CAECILIINAE**

CAECILIUS Curtis

C. aurantiacus Hag. Speculator, Jl, L. Placid, Aug, *EPV* (NYS); Woodworth's L., Aug, *Alex* (Bks); Olcott, Aug, Cinnamon L., Jl, Montour Falls, Sep, Howard, Jl, Louck's Pond, Steuben Co (*Chap*); Hammondsport, Jl, Freeville, Oct, *Cy* (Chap); Penn Yan, Jl–Aug, Enfield Glen, Aug, Ithaca, Jl–Aug, Danby, Oct, Woodwardia Swamp, Aug, Catskill, Hunter, Aug (*Chap*); Larchmont, Je–Jl (*Nad*); Ellenville, Jl (*Nad*); **LI:** Sea Cliff, Sep (*Nad*, *Chap*).

C. confluens Walsh. Fair Haven, Sep, Ithaca, Sep, Woodwardia Swamp, Tompkins Co, Aug (*Chap*); Hunter, Aug (*Chap*); **LI:** Sea Cliff, Sep, *Nad* (*Chap*).

C. posticus Bks. **LI:** Sea Cliff, Aug (Bks).

C. umbrosus Bks. Hillside, *Alex* (Bks); **LI:** Sea Cliff (Bks).

LACHESILLA Westwood

(*Pterodela* Kolbe)

L. pedicularia L. Gloversville, Aug–Sep (Bks); Ithaca, Aug (AM).

L. rufa Walsh. Larchmont, Je (Nad).

SUBFAMILY **POLYPSOCINAE**

POLYPSOCUS Hagen

P. corruptus Hag. Johnstown, Aug (Bks); Hamburg, Jl, *EPV* (NYS); Letchworth Pk., Jl, *Cy* (Chap); Wells, Jl, *Yg* (Chap); Montour Falls, Sep (*Chap*); Ithaca, Enfield Glen, Aug (*Chap*); Albany (Chap–NYS); Poughkeepsie, Je, *Yg* (Chap); **LI:** Sea Cliff, Sep (Nad).

SUBFAMILY **PERIPSOCINAE**

PERIPSOCUS Hagen

P. madidus Hag. Speculator, Aug, *EPV* (NYS); Saranac Inn, Jl (Ndm); L. Placid (EPV); Wells, Jl, *Yg* (NYS); Avalanche L., Essex Co, *Cy&Bish* (Chap); Mt. McIntyre, *Cy&Bish* (Chap); Woodworth's L., Aug (Bks); Fair Haven, Sep (*Chap*); Cinnamon L., Jl, Penn Yan, Aug, Montour Falls, Sep, Ithaca, Jl–Sep, Danby, Oct, McLean, Jl–Sep, Howard, Jl, Enfield Glen, Aug, Hunter, Aug (*Chap*); High Falls, Je, Ellenville, Jl (Nad); **LI:** Sea Cliff, Sep (Nad).

P. permadidus Walsh. L. Placid, Speculator, Aug, *EPV* (NYS); Ellenville, Jl (Nad); **LI:** Sea Cliff, Sep (*Nad*).

FAMILY **MYOPSOCIDAE**

SUBFAMILY **MYOPSOCINAE**

LICHENOMIMA Enderlein

L. lugens Hag. Ithaca, Woodwardia Swamp, Tompkins Co, Aug (*Chap*).

L. sparsa Hag. Ithaca, Aug (*Chap*); Hunter, Aug (*Chap*); Poughkeepsie, Aug (Chap–NYS).

FAMILY MESOPSOCIDAE

SUBFAMILY MESOPSOCINAE

MESOPSOCUS Kolbe

M. unipunctatus Mull. Sacandaga Pk., Je, *Alex* (Bks); Newport, Je (Chap–NYS); Cinnamon L., Jl (*Chap*); McLean, Je–Jl, *Sib* (Chap); Karner (Chap–NYS); Howard, Jl (*Chap*); Larchmont, Je (Nad).

ELIPSOCUS Hagen

E. pumilis Hag. "NY" (Hag).

PHILOTARSUS Kolbe

P. maculosus Aaron (*Elipsocus*). Montour Falls, Sep (*Chap*).

FAMILY LEPIDOPSOCIDAE

ECHMEPTERYX Aaron

E. hageni Pck. L. Placid, Aug, *EPV* (NYS); Fair Haven (*Chap*); Johnstown, Aug, *Alex* (Bks); Montour Falls, Sep (*Chap*); Ithaca, Jl–Aug, Hunter, Aug (*Chap*); Ellenville, Jl (Nad); **LI:** Riverhead, Oct (*Chap*).

FAMILY PSYLLIPSOCIDAE

PSYLLIPSOCUS Selys

P. ramburi Selys. NYC, Jan, Je (Felt); Manhattan, Jl (Nad); **LI:** Brooklyn, Je–Jl (*Nad*).

NYMPHOPSOCUS Enderlein

(*Ocellataria* Weber)

N. gravinympha Web. **LI:** Brooklyn, throughout the year (Nad).

FAMILY PSOQUILLIDAE

DORYPTERYX Aaron

D. pallida Aaron. Ithaca, Aug–Oct, in old papers and books (*Chap*).

FAMILY TROGIIDAE

SUBFAMILY TROGIINAE

TROGIUM Illiger

T. pulsatorium L. The so-called "deathwatch." Hunter, Aug (*Chap*); **LI:** Sea Cliff, Sep, *Nad* (*Chap*).

FAMILY LIPOSCELIDAE

LIPOSCELIS Motschulsky

(*Troctes* Burmeister)

L. divinatorius Mull. Fayetteville, Mar (Chap); Ithaca, May, in nests of English sparrow (*Chap*); Otsego (Lint); Albany, Oct (Felt); Wakefield, Oct (Felt); NYC (Felt).

ORDER MALLOPHAGA [11]

Compiled by F. H. WILSON

SUBORDER AMBLYCERA

FAMILY MENOPONIDAE

MENOPON Nitzsch

M. aegialitidis Durr. Hebron, Sep, on killdeer (*Oxyechus vociferus vociferus* L.).

M. leucoxanthum Nitz. Ithaca, Oct, on black duck (*Anas rubripes* Brewst.).

M. stramineum Nitz. (*biseriatum* Piaget). LARGE BODY LOUSE. General throughout the State, on hen (Herr); also Ithaca, Ap, on captive ring-necked pheasant (*Phasianus torquatus* Gmel.) (Herr) and domestic turkey.

M. pallidum Nitz. COMMON HEN LOUSE. General throughout the State, on hen (Herr), ring-necked pheasant, and guinea fowl.

MYRSIDEA Waterston

M. subaequalis Lyonet. Ithaca and Hebron, on crow (*Corvus brachyrhynchos brachyrhynchos* Brehm) and red-shouldered hawk (*Buteo lineatus lineatus* Gmel.).

COLPOCEPHALUM Nitzsch

C. laticeps Kell. L. Cossayuna, Sep, on great blue heron (*Ardea herodias herodias* L.).

C. pustulosum Piaget. Ithaca, Sep, on pectoral sandpiper (*Pisobia maculata* Vieill.).

TRINOTON Nitzsch

T. querquedulae L. (*luridum* Nitz.). Ithaca, on redhead (*Marila americana* Eyt.), pintail (*Dafila acuta* L.), and wood duck (*Aix sponsa* L.); Hebron, Sep, on green-winged teal (*Nettion carolinensis* Gmel.).

PSEUDOMENOPON Mjöberg

P. pacificum Kell. Ithaca, on coot (*Fulica americana* Gmel.) and pied-billed grebe (*Podilymbus podiceps* L.).

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[11] The order of arrangement of families and genera here is that adopted by L. Harrison in his article entitled "The Genera and Species of Mallophaga," in Parasitology, vol. 9, p. 1–156, 1916. The species are arranged alphabetically in each genus. The list is based upon careful collecting by Mr. Wilson (chiefly at Hebron and at Ithaca), upon material already in the Cornell collection, and upon such published records as seemed trustworthy.

FAMILY RICINIDAE

RICINIUS DeGeer

R. leptosomus Carriker. Ithaca, on kingbird (*Tyrannus tyrannus* L.).

R. lineatus Osb. Recorded from Ithaca by Osb., on ruby-throated humming bird (*Archilochus colubris* L.).

TROCHILOECETES Paine and Mann

T. prominens Kell. & Chap. Ithaca, on ruby-throated humming bird.

SUBORDER ISCHNOCERA

FAMILY TRICHODECTIDAE

TRICHODECTES Nitzsch

T. bovis L. (*scalaris* Nitz.). BITING CATTLE LOUSE. Common throughout the State, on domestic cattle.

T. equi L. BITING HORSE LOUSE. Probably common throughout the State, on horse, but definitely recorded only from Ithaca.

T. ovis L. (*sphaerocephalus* Olfers). N. Blenheim and Liberty, on sheep (Lint. Rept. 1889).

T. subrostratus Nitz. Probably common throughout the State, on cat, but definitely recorded only from Ithaca.

FAMILY PHILOPTERIDAE

SUBFAMILY GONIODINAE

GONIODES Nitzsch

G. dissimilis Nitz. Malone, Ap, on ring-necked pheasant (*Phasianus torquatus* Gmel.).

G. meleagridis L. (*stylifer* Nitz.). Ithaca, common on domestic turkey (Herr).

GONIOCOTES Burmeister

G. bidentatus Scop. (*compar* Nitz.). Ithaca, very common on domestic pigeon (Herr).

G. gigas Tasch. Ithaca, on hen and guinea fowl, but not common (Herr).

G. hologaster Nitz. LESSER CHICKEN LOUSE. Ithaca, fairly common on hen, and probably widely distributed throughout the State.

SUBFAMILY PHILOPTERINAE

PHILOPTERUS Nitzsch

P. agelaii Osb. Ithaca, on red-winged blackbird (*Agelaius phoeniceus phoeniceus* L.).

P. ceblebrachys Nitz. Avon, Jan, on snowy owl (*Nyctea nyctea* L.), *GAFrench.*

P. corvi Osb. Ithaca and Hebron, on crow (*Corvus brachyrhynchos brachyrhynchos* Brehm).

P. cursor Nitz. Ithaca, on barred owl (*Strix varia varia* Barton).

P. dentatus Scopoli (*icterodes* Nitz.). Ithaca, on domestic duck (*Anas domestica*), canvasback (*Marila vallisneria* Wils.), redhead (*M. americana* Eyt.), greater scaup duck (*M. marila* L.), old squaw (*Harelda hyemalis* L.), king eider (*Somateria spectabilis* L.), Canada goose (*Branta canadensis canadensis* L.), mallard (*Anas platyrhynchos* L.), black duck (*Anas rubripes* Brewst.), and pintail (*Dafila acuta* L.); Hebron, on green-winged teal (*Nettion carolinensis* Gmel.); NY, on hooded merganser (*Lophodytes cucullatus* L.).

P. jungens Kell. Ithaca, on northern flicker (*Colaptes auratus luteus* Bangs).

P. major Waterston. Lansing and Ithaca, on Wilson's snipe (*Gallinago delicata* Ord.).

P. pertusus Nitz. Ithaca, on coot (*Fulica americana* Gmel.).

P. quiscali Osb. Ithaca, on bronzed grackle (*Quiscalus quiscula aeneus* Ridgw.).

DEGEERIELLA Neumann

D. boephila Kell. Hebron, on killdeer (*Oxyechus vociferus vociferus* L.).

D. cedrorum Piaget. Hebron, on cedar waxwing (*Bombycilla cedrorum* Vieill.).

D. fusca Nitz. Hebron, on red-shouldered hawk (*Buteo lineatus lineatus* Gmel.).

D. interrupta Piaget. L. Cossayuna, on solitary sandpiper (*Helodromas solitarius solitarius* Wils.).

D. illustris Kell. Ithaca, on red-winged blackbird (*Agelaius phoeniceus phoeniceus* L.), bobolink (*Dolichonyx oryzivorus* L.), and bronzed grackle (*Quiscalus quiscula aeneus* Ridgw.).

D. nebulosa Burm. Ithaca, on starling (*Sturnus vulgaris* L.) and robin (*Planesticus migratorius migratorius* L.).

D. ornatissima Giebel. Ithaca, on red-winged blackbird.

D. vulgata Kell. Hebron, on English sparrow (*Passer domesticus domesticus* L.).

RALLICOLA Johnston and Harrison

R. advena Kell. Ithaca, on coot (*Fulica americana* Gmel.) and bufflehead (*Charitonetta albeola* L.).

R. bisetosa Piaget var. **californica** Kell. Ithaca and Hebron, on Virginia rail (*Rallus virginianus* L.) (Kell & Chap).

SUBFAMILY ACIDOPROCTINAE

ACIDOPROCTUS Piaget

A. kelloggi Carr. Ithaca, on canvasback (*Marila vallisneria* Wils.).

ORNITHOBIUS Denny

O. goniopleurus Denny. Ithaca, on Canada goose (*Branta canadensis canadensis* L.).

SUBFAMILY ESTHIOPTERINAE

ESTHIOPTERUM Harrison

E. anseris L. (*jejunum* Nitz.). Ithaca, on domestic goose (*Anser domesticus*) (Herr).

E. columbae L. (*baculum* Nitz.). Rochester, *French*; Ithaca (Herr). On domestic pigeon.

E. botauri Osb. Hebron, on American bittern (*Botaurus lentiginosus* Montag.).

E. comstocki Kell. & Chap. Ithaca and Hebron, on Virginia rail (*Rallus virginianus* L.) (Kell&Chap).

E. crassicorne Scop. (*squalidum* Nitz.). Ithaca, on king eider (*Somateria spectabilis* L.), mallard (*Anas platyrhynchos* L.), black duck (*Anas rubripes* Brewst.), pintail (*Dafila acuta* L.), and redhead (*Marila americana* Eyt.); W. Hebron, on green-winged teal (*Nettion carolinensis* Gmel.).

E. infuscatum Osb. Ithaca, on American woodcock (*Philohela minor* Gmel.).

E. luridum Nitz. Ithaca, on coot (*Fulica americana* Gmel.).

E. thoracicum Piaget. Ithaca, on bufflehead (*Charitonetta albeola* L.).

LIPEURUS Nitzsch[12]

L. caponis L. (*variabilis* Nitz.). VARIABLE HEN LOUSE. Generally distributed throughout the State, on hen; also taken at Newfield on ring-necked pheasant (*Phasianus torquatus* Gmel.).

L. gallipavonis Geoff. (*polytrapezius* Nitz.). SLENDER TURKEY LOUSE. Ithaca, common on domestic turkey (Herr).

L. heterographus Nitz. CHICKEN HEAD-LOUSE. Recorded definitely only from Ithaca, but common throughout the State, on hen (Herr).

ORDER THYSANOPTERA

Compiled by J. DOUGLAS HOOD and GLENN W. HERRICK

While the present list of New York thrips is nearly twice as long as that of Hinds for all of North America (Proc. U. S. Nat. Mus., vol. 26, p. 79–242, 1902), it certainly represents not more than half of the species which could be taken in a few months of really careful collecting. New York material of the group would be welcome indeed, and collectors are urged to send specimens (preferably in 80-per-cent alcohol) to the compilers of this list, for identification.

The first attempt to compile a list of New York Thysanoptera was made by Jacobus C. Faure, now Professor of Entomology in the Transvaal University College, Pretoria, Union of South Africa, while he was an undergraduate student at Cornell University. Mr. Faure collected about thirty species, most of which had not previously been taken in the State.

SUBORDER TEREBRANTIA

Superfamily AEOLOTHRIPOIDEA

FAMILY AEOLOTHRIPIDAE

AEOLOTHRIPS Haliday

A. albicinctus Hal. Canastota, Jl–Aug, on corn leaves, *Faure* (Hd); Macedon, Je, common on grass (*Hd*); Elmira, Jl, on onion, *Faure* (Hd); Chester, Aug, on onion, *Faure* (Hd); Ithaca, May, on Pinus, *Babiy* (Hd), and in sweepings from grass (*Hd*).

[12] The genus Lipeurus is placed by Harrison in the subfamily Goniodinae.

A. bicolor Hinds. Ithaca, on red clover, *Wehrle* (Herr); Chester, on onion, *Faure* (Hd).

A. nasturtii Jones. Ithaca, May, in sweeping grass (*Hd*).

A. fasciatus L. Cranberry L., Je, *Drk* (WatsonJR); Sodus Pt., Aug, in dandelion flowers (*Hd*); Macedon, Je–Oct, abundant on onion, feeding on *Thrips tabaci* (*Hd*); Ithaca, May, in sweeping (*Hd*); Geneva, Jl, on cherry foliage, *GlasgowH* (Hd); Canastota, Aug, on clover, *Faure* (Hd); Elmira, Jl, on onion, *Faure* (Hd); Pine I., Aug, on onion, *Faure* (Hd); Chester, Aug, on onion, *Faure* (Hd); Pulaski, Je, on grass, *Babiy* (Herr).

A. melaleucus Hal. (*annectans* Hd.). Macedon, Je, on Tilia (*Hd*); Monsey, Jl, on foliage of pear, *GlasgowH* (Hd).

Superfamily THRIPOIDEA

FAMILY THRIPIDAE

HETEROTHRIPS Hood

H. limbatus Hd. Macedon, Je, in flowers of wild cherry (*Hd*).

H. arisaemae Hd. Macedon and McLean, May, in flowers of Jack-in-the-pulpit (*Hd*).

H. azaleae Hd. Suffern, May, in flowers of Azalea, *KalmbachER* (Hd).

HELIOTHRIPS Haliday

H. femoralis Reut. Ithaca, in greenhouses, Ap–Jl, on a large variety of plants, *div.* (Hd and *Herr*).

H. haemorrhoidalis (Bouché). THE GREENHOUSE THRIPS. Watkins, Jl, presumably in greenhouse (Felt); Ithaca, in greenhouses, Jan, on fern, *Faure* (Hd), May, on Croton, *Griswold* (Hd).

PARTHENOTHRIPS Uzel

P. dracaenae (Heeger). Ithaca, in greenhouses, Mar, *Faure* (Hd), Ap, on calla lily, *Joh* (Hd), May, on palm, *Griswold* (Hd), Nov, Dec, on banana and Anthurium (*Herr*); Ogdensburg, on palm and rubber plant in greenhouse, *LawrenceFW* (Hd).

SERICOTHRIPS Haliday

S. cingulatus Hinds. Ithaca, May, in stomach of very young trout, *Pck* (Hd). A grass species.

ECHINOTHRIPS Moulton

E. subflavus Hd. Little Valley, Sep, under bark of beech sapling, *Chap* (Hd).

LIMOTHRIPS Haliday

L. cerealium Hal. Sheldrake, Aug, on oats (*Herr*); **LI:** Riverhead, Jl, in flight, abundant, *RussellHM* (Hd).

L. denticornis Hal. Macedon, in winter hibernating under bark of willow and in fallen leaves, in summer abundant on wheat and grasses (*Hd*); Ithaca, on wheat, *RiesD* (Hd), in fallen leaves, Mar–Ap, *BarnesTC* (Hd), in robin's nest, Mar, *Dobroscky* (Hd), on grass, Je (*Hd*); McLean, on grass, *Babiy* (Herr).

CHIROTHRIPS Haliday

C. manicatus Hal. Rochester, Jl, in heads of *Dactylis glomerata* (*Hd*); Canastota, Jl, in milkweed flower, *Faure* (Hd); Macedon, Je, on wheat (*Hd*); Elmira, Jl, on tobacco, *Faure* (Hd); Ithaca, May, in stomach of very young trout, *Pck* (Herr), Je, on grass (*Hd*); Slaterville, May, on grass (*Hd*); McLean, May, on grass (*Hd*).

C. obesus Hinds. Canastota, Jl, on grass, *Faure* (Hd).

APTINOTHRIPS Haliday

A. rufus (Gmelin). Canastota, Nov, on grass, *Faure* (Hd); Macedon, May–Je, on wheat and grass (*Hd*); **LI:** Riverhead, Je, on grass, *RussellHM* (Hd).

A. rufus forma **stylifera** Trybom. McLean, May, common on grass, *Leon&Hd* (Hd).

ANAPHOTHRIPS Uzel

A. obscurus (Müller). THE GRASS THRIPS. Albion, Jl (Felt); Macedon, Oct, on corn (*Hd*); Canastota, Jl, Nov, on grass, *Faure* (Hd); Taughannock, Jl, on heads of timothy (*Herr*); Ithaca, Je, on grass (*Hd*); **LI:** Riverhead, Je, on grass, *RussellHM* (Hd); Cold Sp. Harb., Je, *And* (Hd).

SCOLOTHRIPS Hinds

S. 6-maculatus (Perg.). Chester, Aug, on elm leaves, predacious on mites, *Faure* (Hd).

FRANKLINIELLA Karny

F. fusca (Hinds) (*Scirtothrips owreyi* Watson). THE TOBACCO THRIPS. Wells, May, on buttercup, *Yg* (Hd); Elmira, Jl, on tobacco, *Faure* (Hd); Florida, Aug, on onion, *Faure* (Hd); Chester, Aug, on grass, *Faure* (Hd).

F. tenuicornis (Uzel) (*nervosa* Uzel, *maidis* Beach). Canastota, Jl, on corn, *Faure* (Hd); Macedon, May–Oct, common on wheat and corn (*Hd*); Elmira, Jl, on tobacco, *Faure* (Hd).

F. tritici (Fitch). "NY" (Fitch); Speculator, May, on strawberry, *Yg* (Hd); Williamson, Je, on *Ranunculus bulbosus*, *Faure* (Hd); Macedon, May–Oct, on flowers and foliage of various plants (*Hd*); Ithaca, Aug, on red clover, *Wehrle* (Herr); Taughannock, Jl, on Hypericum (Herr); McLean, May, in catkin of willow (*Hd*); **LI:** Riverhead, Aug, on various plants, *RussellHM* (Hd).

F. stylosa Hd. Suffern, May, on Azalea and dogwood, *KalmbachER* (Hd).

TAENIOTHRIPS Amyot and Serville

T. salicis (Reut.). Slaterville, May, on Salix (*Hd*).

T. inconsequens (Uzel) (*Euthrips pyri* Daniel). THE PEAR THRIPS. Macedon, May–Je, on wild and cultivated cherry (*Hd*); Batavia, May, on pear, *Faure* (Hd); E. Bethany, May, on apple foliage, *Herr* (Hd); Geneva, Ap, *GlasgowH*, and May, *ParrottPJ*, on apple (Hd); Ithaca, May, on pear (*Herr*); Ravena and Athens (Felt); Tivoli, May, on pear, *Rupert* (Herr); Ulster Co, Ap, *MillsWD* (Hd).

CTENOTHRIPS Franklin

C. bridwelli Frankl. Rose, May, on leaves of *Cypripedium hirsutum, WeedAC* (Hd); Macedon, May, on leaves of *Podophyllum peltatum* (*Hd*); Ithaca, Je, on *Podophyllum peltatum, Herr* (Hd), Jl and Sep, on skunk cabbage (*Herr*); Taughannock, Jl, on Trillium (*Herr*); Ludlowville, May, on skunk cabbage (*Hd*); McLean, May, on May apple and skunk cabbage, *Leon&Hd* (Hd).

THRIPS Linnaeus

T. impar Hd. Macedon, Aug, on Impatiens (*Hd*); McLean, Sep, on flowers and leaves of Impatiens (*Hd*).

T. nigropilosus Uzel. Canastota, Aug, on castor-oil plant in greenhouse, *Faure* (Hd); Macedon, Ap, on leaves of mullein (*Hd*); Rochester, Mar, on lemon verbena in greenhouse (*Hd*); Berkshire, Je, on lettuce, *EasonNH* (Hd). Apparently introduced from Europe.

T. physapus L. Speculator, May, *Yg* (Hd); Sodus Pt., Aug (*Hd*); Rochester, May–Aug (*Hd*); Wallace, Ap (*Hd*); Ithaca, Je, Aug, Oct, *Faure* (*Hd*). A common dandelion-flower species.

T. tabaci Lindeman. THE ONION THRIPS. Newport, Jl (Felt); Canastota, Nov, on grass near onion fields, *Faure* (Hd); Marion, Je, on onion, *Faure* (Hd); Macedon, Oct, on onion (*Hd*); Geneseo, Je (Felt); Ithaca, Oct, on daisy, *Faure* (Hd); **LI:** Je, infesting cauliflower seedbeds, *Huck* (Hd).

T. monotropæ Hd. Sodus Pt., Aug 10, in flowers of *Monotropo uniflora* (*Hd*).

T. veratri Herr. Ithaca, on *Veratrum viride* (*Herr*).

T. flavus Schrank. Ithaca, Jl, in flowers of *Angelica atropurpurea, JacksonLO* (Hd).

T. fuscipennis Hal. Ithaca, Jl, in flowers of *Angelica atropurpurea, JacksonLO* (Hd).

T. calcaratus Uzel. McLean, May 19, in grass, etc., *Leon&Hd* (Hd).

BALIOTHRIPS Uzel

B. dispar (Hal.). Chester, Ap, on grass, *Faure* (Hd).

FAMILY MEROTHRIPIDAE

MEROTHRIPS Hood

M. morgani Hd. Macedon, Oct, under bark of fallen elm tree (*Hd*).

SUBORDER TUBULIFERA

Superfamily PHLAEOTHRIPOIDEA

FAMILY PHLAEOTHRIPIDAE

HAPLOTHRIPS Amyot and Serville

H. graminis Hd. Barneveld, on grasses, *WolcottGN* (Hd).

H. faurei Hd. Ithaca, Oct, on ivy foliage, *Faure* (Hd), and on *Chenopodium album, Chap* (Hd), May, on willow foliage (*Hd*); Florida, Aug, on willow foliage, *Faure* (Hd); W. Danby, May, on willow (*Hd*); Cinnamon L., May, on pine (*Hd*).

H. leucanthemi (Schrank) (*niger* Osb., *statices* auct. nec Hal.). Speculator, Je, in flowers of red clover, daisy, and yarrow, *Yg* (Hd–NYS); Northampton, Je, on yarrow, *Yg* (Hd–NYS); Wells, May, on buttercup and blackberry, *Yg* (Hd–NYS); Canastota, Jl–Aug, on daisy, *Faure* (Hd); Rochester, Je–Jl, on *Chrysanthemum leucanthemum*, *Melilotus officinalis*, and *Trifolium repens*, *MaynardEA* (Hd), on wild carrot (reared), and in flowers of *Achillea millefolium* (*Hd*); Macedon, Je, on *Chrysanthemum leucanthemum* and *Trifolium* spp. (*Hd*); Ithaca, Je, in flowers of daisy and rhubarb, *Faure* (Hd), Jl, on yarrow (*Herr*), Aug, on red clover, *Wehrle* (Herr); Taughannock, Jl, on ox-eye daisy (*Herr*); **LI:** Riverhead, Je, on daisy, *RussellHM* (Hd).

H. verbasci (Osb.). Speculator, Je, on mullein, *Yg* (Hd); Rochester, Nov, on mullein (*Hd*); Macedon, throughout the year, on mullein (*Hd*); Wallace, May, on mullein (*Hd*); Ithaca, May, on mullein (*Herr*), and in stomach of very young trout, *Pck* (Herr); McLean, May, on mullein, *Leon&Hd* (Hd); **LI:** Riverhead, Je–Jl, common on mullein, one specimen from black-eyed daisy, *RussellHM* (Hd).

HINDSIANA Karny

H. dodgei Hd. Macedon, May 4, under rotting elder bark (*Hd*).

H. pullata Hd. Macedon, Jan 23, under bark on apple tree (*Hd*).

ZYGOTHRIPS Uzel

Z. americanus Hd. Macedon, Jan–Ap, Aug, under bark of maple, hickory, apple, and ash trees (*Hd*); Slaterville, May, under maple bark (*Hd*).

LEPTOTHRIPS Hood

L. mali (Fitch) (*adirondacks* Watson, in part). "NY" (Fitch); Cranberry L., Jl, on yellow birch, *Drk*, "type, male," of *L. adirondacks* Watson (Hd); Macedon, Je, on leaves of grape and basswood (*Hd*); E. Bethany, May, on apple, *Herr* (Hd); Geneva, on grape clusters (Hd); Ithaca, Oct, on grape foliage, *Faure* (Hd); Suffern, May, on Azalea and dogwood, *KalmbachER* (Hd).

LIOTHRIPS Uzel

L. caryae (Fitch). "NY", in galls of Phylloxera on hickory (Fitch).

L. citricornis (Hd.) (*Leptothrips adirondacks* Watson, in part). Cranberry L., Je, on *Viburnum alnifolium*, *Drk*, paratype of *L. adirondacks* Watson (Hd); Macedon, Je, on grape (*Hd*); Suffern, May, on grape, *JacksonLO* (Hd).

L. vaneeckei Pries. **LI:** Brooklyn, Oct, on bulbs of *Lilium canadense*, *Stout* (Hd).

RHYNCHOTHRIPS Hood

R. russelli Hd. Keene Val., Je, on Virginia creeper, *Mrs. W. S. Stewart* (Hd).

R. pruni Hd. Macedon, throughout the year (*Hd*); Ithaca, Mar (*Hd*); Slaterville, May (*Hd*); McLean, May, *Leon&Hd* (Hd). Common under bark of wild cherry.

NEOTHRIPS Hood

N. corticis Hd. Macedon, Feb, Ap, Aug, under bark of hickory, maple, apple, and buckeye (*Hd*).

HOPLOTHRIPS Amyot and Serville

H. beachi (Hinds). Macedon, Aug, under bark of dead maple saplings (*Hd*); Rochester, Je, reared from pupae taken under dead willow bark, *TreherneRC* (*Hd*); Mumford, Ap, under bark on dead willow branch (*Hd*); Ludlowville, May, under willow bark (*Hd*); Elmira, Oct, under bark of beech, *Chap* (Hd); Clarksburg, Sep, under bark of beech, *Chap* (Hd); Barcelona, Sep, under bark of beech, *Chap* (Hd).

H. corticis (DeG.). Cinnamon L., May, under bark of birch, *Brad&Hd* (Hd); **LI:** Bergen Beach, Jan, under bark of oak, *Dow* (Hd).

H. karnyi karnyi (Hd). Macedon, Ap, under bark (*Hd*); Slaterville, May, under bark of apple (*Hd*).

H. karnyi major Hd. (*Trichothrips drakei* Watson, at least in part). Macedon, throughout the year, under bark of various trees, usually associated with fungus (*Hd*); Lakeville, May, under willow bark, *MaynardEA* (Hd); Syracuse, Oct, under bark of black locust, *OsbornE*, paratype of *Trichothrips drakei* Watson (Hd); Ithaca, Mar, in shelf fungus (*Herr*), Nov, under bark of tree, *Babiy* (Herr), Feb–Je, on Polyporus (*Hd*), Je, in rotten stump, *Cy* (Hd); Taughannock, Aug, under bark of beech stick (*Herr*); McLean, May, under bark on fungus-covered stump, *Leon&Hd* (Hd); Cinnamon L., May, under bark of birch, *Brad&Hd* (Hd); **LI:** Sea Cliff, Sep, oak branches, *Chap* (Hd).

TRICHOTHRIPS Uzel

T. americanus Hd. Ludlowville, May, under willow bark (*Hd*).

T. angusticeps Hd. Macedon, Ap, Aug, under bark of fungus-covered maple and hickory stumps (*Hd*); Rochester, Nov, on fungus under bark of beech stump (*Hd*).

T. fumiceps Hd. Potter, Ap, under rotting willow bark (*Hd*).

T. flavicauda Morgan. Macedon, Oct, under elm bark (*Hd*); W. Danby, Ap, under poplar bark (*Hd*).

LISSOTHRIPS Hood

L. muscorum Hd. Ithaca, May, in moss, *BarnesTC* (Hd).

BOLOTHRIPS Priessner

B. bicolor (Heeger). Canastota, Mar, on grass, *Faure* (Hd); Macedon, Mar, under fallen leaves (*Hd*); Ithaca, Mar–May, Jl, on grasses and in fallen leaves and other débris, *Babiy* (Herr), *BarnesTC* (Hd).

CRYPTOTHRIPS Uzel

C. rectangularis Hd. (*Gastrothrips salicis* Watson). Cranberry L., Jl, on willow, *Drk*, holotype of *G. salicis* Watson (Hd); Macedon, May–Je, under willow bark (*Hd*); Kenwood, Jl, on peach bark, *Faure* (Hd); Ithaca, May, under willow bark (*Hd*).

C. (?)breviventris Hd. Macedon, Oct 26, in moss on fallen tree in lowland (muck) woods (*Hd*).

PHLAEOTHRIPS Haliday

P. chapmani Hd. Cinnamon L., Je, under bark of poplar, *Chap* (Hd); Elmira, Jl, on tobacco foliage, *Faure* (Hd).

P. vittatus Hd. Parkers, Lewis Co, Sep 2, *Chap* (Hd).

HOPLANDROTHRIPS Hood

H. xanthopus Hd. Macedon, May, reared from nymph taken under maple bark (*Hd*).

H. proximus Hd. Macedon, May 18–31, Ithaca, May 27, under dead bark of Salix (*Hd*).

H. gynandrus Hd. Macedon, May 18 and 29, under dead bark of *Salix* sp. infested with *Cryptorhynchus lapathi* (*Hd*).

PHLOEOBIOTHRIPS Hood

P. tumiceps Hd. Macedon, May, Oct–Nov, under bark of fallen branches and saplings (*Hd*).

ACANTHOTHRIPS Uzel

A. nodicornis (Reut.). Cranberry L., Jl, in top of fallen maple tree, *Drk* (WatsonJR); Macedon, May, under willow bark (*Hd*).

NEUROTHRIPS Hood

N. magnafemoralis (Hinds). Cranberry L., Jl, in top of fallen maple tree, *Drk* (WatsonJR); Macedon, Feb–Ap, under bark of maple and hickory (*Hd*); Canastota, Mar, under bark, *Faure* (Hd); Chester, on onion, *Faure* (Hd); Slaterville, May, one dead female under sycamore bark (*Hd*).

POECILOTHRIPS Uzel

P. ornatus (Hd.). Sodus Pt., Sep, one female taken in flight (*Hd*); Rochester, Jl, one female taken in flight (*Hd*); Macedon, Ap, several nymphs under bark on hickory stump (*Hd*).

GLYPTOTHRIPS Hood

G. flavescens Hd. Chester, Ap, in grass, *Faure* (Hd).

MEGALOTHRIPS Uzel

M. spinosus Hd. (*Idolothrips fuscus* Watson). Syracuse, Oct, in burrows of cerambycid-beetle larva in twig of basswood, *Drk*, "type" and paratype of *Idolothrips fuscus* Watson (Hd); Macedon, Mar–Je, under bark of maple, in burrows of *Cryptorhynchus lapathi* in willow, and in stem galls on goldenrod (*Hd*); Ithaca, Mar, in hole in dead twig, *FletcherPB* (Hd); Nyack, in nest of mining bee, *Zab* (Hd); Rock City, Sep, under maple bark, *Chap* (Hd); **LI:** Sea Cliff, Sep, on oak branches, *Chap* (Hd).

ELAPHROTHRIPS Buffa

E. tuberculatus (Hd). **LI:** Long Pond, Sep 19, in dry oak leaves on broken limb, *Chap* (Hd); Wading River, Sep 19, *Chap&Boyce* (Hd).

ORDER ANOPLURA

Compiled by G. F. FERRIS

The published records of the occurrence of species of sucking lice in New York are apparently very few. However, the distribution of these insects is determined rather by the range of their hosts than by any other factor, and consequently we may be reasonably sure that those species whose normal hosts occur within the State will be found there also. The compiler has therefore included in this list the names of those species which may reasonably be expected to occur. Such species are indicated by brackets and are in italics.

The general classification of the Anoplura is in a rather unsatisfactory state and will probably require some modification. Two families are recognized for the New York species.

FAMILY PEDICULIDAE

PEDICULUS Linnaeus

P. humanus (L.). HEAD AND BODY LOUSE OF MAN. Generally distributed throughout the State. Usually two species are recognized, *capitis* and *corporis*, but it has been shown that at best these are nothing more than races which should probably not be recognized.

PHTHIRIUS Leach

P. pubis (L.). PUBIC LOUSE. Not common, but known from various places in the State where sanitary conditions are bad.

FAMILY HAEMATOPINIDAE

HAEMATOPINUS Leach

[*H. asini* (L.). HORSE LOUSE. Occurs on horses in the State, but definite locality records are not available.]

H. eurysternus (Nitz.). SHORT-NOSED OX LOUSE. Throughout the State, on domestic cattle. Watertown (Bishopp); Otto, Mar (Comst); Oswego (Comst); Ithaca.

H. suis (L.). HOG LOUSE. Throughout the State, on domestic pigs. Otto, Je (CU); Ithaca (Laura Florence).

LINOGNATHUS Enderlein

[*L. pedalis* (Osb.). Doubtless to be found in the State on domestic sheep.]

[*L. stenopsis* (Burm.). Doubtless to be found in the State on domestic goats and perhaps on sheep.]

L. setosus (von Olfers) (*piliferus* (Burm.)). DOG LOUSE. **LI**: Brooklyn, on unnamed host, doubtless dog, *GHFrank* (Bishopp).

L. vituli (L.). LONG-NOSED OX LOUSE. Common throughout the State, on domestic cattle. Herkimer; Watertown and Oriskany Falls (Bishopp).

SOLENOPOTES Enderlein

S. capillatus End. On domestic cattle. Herkimer; Churchville; Ithaca (Bishopp).

POLYPLAX Enderlein

[*P. auricularis* Kellogg & Ferris. In all probability to be found on the white-footed mice of the genus Peromyscus.]

P. spinulosa (Burm.). **LI:** Brooklyn, host not given, but doubtless domestic rat, *GHFrank* (Bishopp). To be expected on the meadow mice of the genus Microtus.

HOPLOPLEURA Enderlein

H. acanthopus (Burm.). "NY", on *Pitymys pinetorum* (Ferris, from skins in U.S.). Certainly present also on meadow mice of the genus Microtus.

H. erratica (Osb.). Sing Sing, on *Tamias striatus* (Ferris, from skins in U. S.).

[*H. hesperomydis* (Osb.). Certainly to be found in the State on white-footed mice of the genus Peromyscus.]

[*H. sciuricola* Ferris. To be expected in the State on any of the tree squirrels.]

[*H. trispinosa* Kellogg & Ferris. To be expected in the State on flying squirrels.]

NEOHAEMATOPINUS Mjöberg

[*N. sciurinus* Mjöberg. To be expected in the State on any of the tree squirrels.]

[*N. sciuropteri* (Osb.). To be expected in the State on flying squirrels.]

ENDERLEINELLUS Fahrenholz

[*E. longiceps* Kellogg & Ferris. To be expected in the State on *Sciurus carolinensis.*]

[*E. marmotae* Ferris. To be expected in the State on woodchucks.]

[*E. nitzschi* (Burm.). To be expected in the State on *Sciurus hudsonicus.*]

[*E. tamiasis* Fahrenholz. To be expected in the State on *Tamias striatus.*]

MICROPHTHIRUS Ferris

[*M. uncinatus* (Ferris). To be expected in the State on flying squirrels.]

EUHAEMATOPINUS Osborn

E. abnormis Osb. Rochester, from mole (Ferris, from skins in U.S.), and from an unnamed host, certainly a mole, *GHFrank* (Bishopp).

HAEMODIPSUS Enderlein

[*H. ventricosus* (Denny). Certainly present in the State on both domestic and wild rabbits.]

ORDER HEMIPTERA

The list of Hemiptera has been prepared under the general editorship of H. G. Barber, of the New York Entomological Society, who has compiled the lists in all families not otherwise credited. J. R. de la Torre-Bueno, of the Brooklyn Entomological Society, has compiled the lists in

the families of aquatic and semi-aquatic Hemiptera. The lists of Miridae and Isometopidae are by Dr. H. H. Knight, and those of Piesmidae and Tingitidae are by Dr. Carl J. Drake. Mr. Barber has determined much of the material in local public and private collections, except in the groups handled by Mr. Bueno, and has collected extensively on Long Island. Many records in all groups have been supplied by Dr. Knight, chiefly from Batavia, Ithaca, and Rock City; by Mr. Bueno from White Plains; and by William T. Davis, chiefly from Staten Island and Long Island but also from other parts of the State where he has collected. Ernest Shoemaker and F. M. Schott have supplied many records, and others also have furnished many, as credited. The editors are indebted to E. P. Van Duzee for an enormous amount of work in the determination of much material from all parts of the State, and for placing at their disposal all of the records which he had available.

Hemiptera have been actively collected by some of the leading specialists for many years in many places in the State, and the list is undoubtedly fairly representative. There is need, however, as will be readily seen, of much more collecting in certain groups and in certain regions.

The sequence of families and genera in the present list follows as closely as possible that in Van Duzee's *Catalog of the Hemiptera.* This is practically the reverse of the order used in Comstock's *Introduction to Entomology.* The order of arrangement of species, in general, follows Van Duzee's catalog, and for convenience the catalog numbers are attached. The synonymy has been changed only where later studies have seemed to warrant doing so. Species not preceded by a number have been described since Van Duzee's catalog was published.

FAMILY **SCUTELLERIDAE**

SUBFAMILY **TETYRINAE** Stål

TETYRA Fabricius

3 **T. bipunctata** H-S. **LI:** Central Pk., *Woodr, Ds*; Huntington, *Schott*; Bellport, *Nic*; Huntington, *Schott*; Wading R., *Ols, Ds*; Bay Shore, *Ols*; Yaphank, *Bno, Eng*; Massapequa, *Ds*; Wyandanch, *Sf*; Pinelawn, *SWheat*; Montauk, *Ds*; Promised Land, *Eng, Ds*; (all Brb). Ap–Sep. Adults more common on pitch pine in spring and fall; nymphs in midsummer, and often found on young pine cones (Ds).

ACANTHOLOMA Stål

8 **A. denticulata** Stål. West Pt., Ap–May, in lake drift, *Robn* (Bno, Brb).

STETHAULAX Bergroth

11 **S. marmoratus** Say. **LI:** Flushing, *Ols*; Kissena Pk.; Rockaway Beach, *Ds, Eng*; (all Ols). May–Oct. Usually beaten from cedar (Brb).

HOMAEMUS Dallas

14 **H. aeneifrons** Say. Long L., *Ds, Bno* (Brb); L. Placid, *Ds, Eng* (*EPV*); Saranac L., *Ds* (Brb); Cranberry L. (*Drk*); Keene Val., *Not* (Brb); Cascade L., Indian L. (*Brb*); Ramapo Mts. (Brb–AM).

SUBFAMILY ODONTOTARSINAE Stål

EURYGASTER Laporte

19 **E. alternatus** Say. Found all over the State (Brb). Cranberry L. (*Drk*); L. Placid, *Eng*; Keene Val., Moss Pond, *Not* (Brb); Indian L., Cascade L. (*Brb*); Niagara Falls, Buffalo (*EPV*); Ithaca, *Ds* (*Kngt*); Mud Cr., Tompkins Co (*EPV*–CU); L. George (Brb–AM); E. Jewett, Debruce, *Ds* (Brb–AM); W. Hebron, *Lg* (Brb); Phoenicia (*EPV*); West Pt., *Robn* (Brb); White Plains (*Bno*); **SI** (*Ds*); **LI:** Bellport, *Nic* (Sf–BM); Amagansett, *Sf* (Brb).

FAMILY CYDNIDAE

SUBFAMILY THYREOCORINAE VanDuzee

GALGUPHA Amyot and Serville

(*Thyreocoris* Schrank)

27 **G. unicolor** Pal. de Beauv. (*atra* Amyot & Serv.). Occurs all over the State (Brb). Potsdam, Jl, *Houghton* (EPV); Cranberry L., Jl (Drk); Newport, May, *Yg* (EPV); Buffalo, Sep (EPV); Boston, Aug, Hamburg, May, E. Aurora, Sep, Colden, Aug, Chautauqua, May, Gowanda, Aug (EPV); Cattaraugus Co, Jl, *Ds* (Brb); Nassau, Jl, *Yg* (EPV); Debruce, *Dow* (Bno); W. Hebron, Aug, *Lg* (EPV); Pine I., May–Je (Brb, Ols); White Plains, Armonk, May–Sep (Bno); Scarsdale, May–Aug (Bno); Bronxville, Je, *Woodr* (Brb); Van Cort. Pk., Je, *Woodr* (Brb); **SI,** Je–Sep, *Ds, Bno* (Brb); **LI:** Rockaway Beach, May, *Ds* (Ols); Long Beach, Je, *Eng* (Sf); Wading R., May, Maspeth, Je–Aug, Yaphank, May (Ols); Pinelawn, Sep, Montauk, Sep, *Ds* (Brb); Flatbush, May–Sep, Mosholu, Sep (Brb–AM). Probably some of these records should refer to the next species (Brb).

— **G. aterrima** Mall. Buffalo, Hamburg, Jl (EPV).

28 **G. nitiduloides** Wolff. Keene Val., Aug, *Not,* Mt. Whiteface, Jl, *Ds* (Brb); Buffalo, Colden, Aug (EPV); **SI,** Je–Sep (Ds); **LI:** Rockaway Beach, May, *div.* (Ols); Long Beach, May (Ds).

31 **G. nigra** Dall. **LI:** Cold Sp. Harb., May, Aug, Yaphank, Sep (Brb).

CORIMELAENA White

(*Thyreocoris* Schrank)

34 **C. lateralis** Fab. Axton, Je (M&H); Niagara Falls, Je (EPV); Debruce, *Dow* (Bno); **LI:** Long Beach, May, *Eng* (Sf–BM).

— **C. marginella** Dall. (*nanella* McAtee, vide McAtee). Grandview, near Nyack, Je (Brb).

37 **C. pulicaria** Germ. Generally distributed throughout the State (Brb). Cascade L., Indian L., Aug (Brb); Mt. Whiteface, *Lg* (Brb); Cranberry L., Jl (Drk); Potsdam, Jl, *Houghton* (EPV); Rochester, *Wendt*

(Ols); Buffalo, Aug (EPV, Brb); Boston, Aug (EPV); Aurora, Jl (Brb–AM); Karner, Jl (EPV); Pine I., Je (Brb); White Plains, May–Dec 23, hibernating on latter date (Bno); W Nyack, May (Ols); **SI**, Jl–Aug (Ds); **LI**: Brooklyn, Wyandanch (Ds); Maspeth, sifting (Ols); Yaphank (Ds, Ols); Kissena Pk. (Ols); Rockaway Beach, *div.* (Bno); Bay Shore (Ols); Flatbush (Brb–AM); Long Beach, Promised Land, *Eng* (Bno); Cold Sp. Harb., *EPButler* (Huss); Fire I. (Ds); Feb–Sep.

SUBFAMILY **CYDNINAE** Dallas

CYRTOMENUS Perty

44 **C. mirabilis** Perty. **SI**, Aug, *Ds* (Ashm).

AETHUS Dallas

(*Cydnus*)

53 **A. obliquus** Uhl. **LI**: Aqueduct, Sep, *Ds* (EPV).

PANGAEUS Stål

58 **P. bilineatus** Say. Oliverea, Jl, *Shoe* (Ols); West Pt., Je (Sf–BM); Yonkers, Je (Brb); NYC, May, Van Cort. Pk., Je (Brb); Bronxville, Oct, *Woodr* (Brb); Inwood, May (Schott); **SI**, Sep, *Ds* (Brb); **LI**: Brooklyn, *Eng* (BM); Flatbush, *Zab* (Ols, Brb–AM); Kissena Pk. (Ols); North Beach, *Schott* (Ols); Ap–Oct.

GEOTOMUS Mulsant and Rey

62 **G. pennsylvanicus** Signoret. Mosholu, May (Brb).

AMNESTUS Dallas

67 **A. spinifrons** Say. Occurs all over the State (Brb). Indian L., Aug (Brb); Hamburg, Je, Aug (EPV); White Plains, May (Bno); Bronxville, Jl–Aug, *Woodr* (Brb); **SI**, May–Je, *Ds* (EPV); **LI**: Yaphank, Aqueduct (Brb); Calvary Cemetery, *ENielson* (Ols); Flushing, *Ols* (Brb); Rockaway Beach (Ds); Huntington, Hempstead Plains (Schott); Yaphank, Long Beach, *Eng* (Bno); Far Rockaway, *Woodr* (Brb); May–Oct.

68 **A. pusillus** Uhl. Keene Val., May, *Not* (Brb); Indian L. Aug (Brb); Rochester, *Wendt* (Ols); Buffalo, Ap–May, Hamburg, Je (EPV); Batavia, May, *Kngt* (Bno); Gowanda, May (EPV); Ithaca, May (EPV–CU); Albany, May (EPV–NYS); W. Hebron, *Lg* (Brb); Yonkers, Ap, *Ang* (Ols); Scarsdale, May, *Eng* (Bno); **LI**: Rockaway Beach, *Ols* (Brb); Far Rockaway, *Woodr* (Brb); Maspeth (Ols); Long Beach, *Eng* (Bno); May.

69 **A. pallidus** Zimm. Mosholu, May (Brb); Pine I., Je (Brb).

SEHIRUS Amyot and Serville

71 **S. cinctus** Pal. de Beauv. Occurs all over the State (Brb). Long L., *Ds*, Cascade L., Aug (Brb); Wilmington, Jl (Ds); N. Elba, Jl (Brb–AM);

Saranac L., Sep, *Lg* (Ds); Cranberry L., Je–Sep, *H* (Huss, Drk); L. Placid, Aug–Sep (EPV); Chazy L., Je (NYS); Buffalo, Hamburg, Jl, and Ithaca, Jl (EPV); L. George, Jl (Brb–AM); Oliverea, Je (Ds); Orange Co, Ap, *JCFaure* (Kngt); Tarrytown, Jl (Bno); **SI,** Aug (Ds); **LI:** Wading R. (Brb, Ds); Montauk, *Schott* (Ols); Je–Aug.

FAMILY **PENTATOMIDAE**

SUBFAMILY **GRAPHOSOMATINAE** Jakowleff

PODOPS Palisot de Beauvois

74 **P. (Amaurochrous) cinctipes** Say. Buffalo, May–Sep (EPV–NYS, CU); Ithaca, Jl (EPV–CU); White Plains, Ap–Sep (Bno); **SI,** Feb–Oct (Brb, Ds); **LI:** Rockaway Beach, *Eng, Ds* (Ols, Brb–AM); Far Rockaway, *Woodr* (Brb); Canarsie (Ols); Long Beach, Jamaica, Flatbush, *Eng* (BM); Bellport, *Nic* (BM); New Lots, *Martin* (BM); E. New York (Ds); Ap–Oct. Common on cattails (Ds), in salt meadows, and on *Juncus gerardi* and doubtless other rushes (Parsh).

75 **P. (Amaurochrous) parvulus** VanD. White Plains (Bno); "NY" (EPV).

SUBFAMILY **PENTATOMINAE** Stål

SCIOCORIS Fallén

79 **S. microphthalmus** Flor. Indian L., Aug (Brb); Cranberry L., Jl–Aug (Drk). Sifted from moss.

BROCHYMENA Amyot and Serville

81 **B. arborea** Say. Lansing, Je–Sep (EPV–NYS); Honeoye Falls, Je (Ds); Buffalo, Ap–Sep (EPV); Hamburg, Je–Sep (EPV–NYS); Gowanda, Aug (EPV); Ithaca, May–Aug (Vdyk–CU); Nassau, Je–Sep (EPV–NYS); White Plains, Aug (Bno); Ramapo, Oct (Ds); Pine I., Sep (Brb); West Pt., Jl, Sep (Brb, Robn); **SI,** Aug–Nov (Ds); **LI:** everywhere (Brb); Huntington, Wyandanch, *Schott* (Ols); Queens, *Ols* (Brb); Yaphank, *Eng* (Ds–BM); Long Beach, Calverton, *Eng* (BM); Amagansett, *Sf,* Bellport, *Nic* (BM); Baldwin, nymphs (Ds); Rockaway Beach, Southold, Massapequa, Wading R., Farmingdale (Ds); Ap–Oct.

85 **B. quadripustulata** Fab. Mt. Whiteface, Je (Ds); Essex Fells, Aug, *Nic* (BM); Elma, Sep (EPV); Hamburg, Sep (EPV); Spring Br., Je, *MCV* (EPV); Batavia, May–Sep, Geneva, Aug (Kngt); Ithaca, Feb–Nov (EPV, Kngt–CU); Clinton Hgts., Ap (EPV); W. Hebron, Je (Lg); Pittstown, Aug (EPV–NYS); Nyack, Sep (Brb–AM); Pine I., Je, *Sf* (BM); Cruger, Jl (Brb–AM); White Plains, Mar–Sep (Bno); West Pt., Je (Ds); Ft. Montgomery, May (Brb); NYC (Brb); **SI,** Feb, Mar, Jl–Sep (Ds); **LI:** Queens Village, Aug, *Ols* (Brb); Rockaway Beach (Ds); Port Washington, Sep (Ols); Kings Pk., Je, *EBell* (Ols); Coney I., *Zab* (Ols); Massapequa, Central Pk., Montauk (Ds); Parkerville, *Bt* (Ols).

89 **B. carolinensis** Westw. (*annulatus* Fab.). Albany Ap, *Yg* (EPV); *Clinton* Hgts., Ap (EPV); southern NY (EPV).

PERIBALUS Mulsant and Rey

94 **P. limbolarius** Stål. Cranberry L., Jl (Drk); Onondaga Co, May, *H* (Huss); Buffalo, May–Sep (EPV); Hamburg, Aug–Sep (EPV); Batavia, May–Sep (Kngt); Ithaca, Ap–Aug (EPV–CU); Norton's Landing, May, *SmHH* (EPV); L. George, Aug (Brb–AM); Albany, Oct (EPV–NYS); Kingston, Aug (EPV); Mosholu, Aug (Bno); White Plains, Jl–Sep (Bno, Ols); Ramapo, May, Aug (Ds); **SI**, May–Je, Oct (Ds); **LI**: generally distributed on Solidago and shepherd's-purse (Ols); Yaphank, Sep (Bno); Cold Sp. Harb., *EPButler* (Brb, Huss); Aqueduct (Ds, Brb); Kings Bridge (Brb); Rockaway Beach, *Shoe* (Ols, Ds); Queens Village, *Schott*, Hempstead, Canarsie (Ols); Pinelawn, Massapequa, Half Way Hollow Hills, Orient (Ds); May–Oct.

TRICHOPEPLA Stål

98 **T. semivittata** Say. Essex Fells, Jl, *Nic* (BM); Buffalo, Je–Nov (EPV); Hamburg, Jl, Colden, Aug (EPV); Salamanca, Jl (EPV); Ithaca, Jl–Aug, Sep (EPV–CU); Binghamton, Jl (Brb–AM); Saugerties, Jl (Brb); Pine I., Je (Brb); Ramapo Mts. (Brb–AM); White Plains, Valhalla, May, Rye Beach, Aug (Bno); Yonkers (Brb–AM); Mosholu, Jl–Oct, *Bno* (EPV); W. Nyack, Sep (Ols); Ft. Montgomery, Jl, *Bno* (EPV); Bronxville, May–Sep, *Woodr* (Brb); Van Cort. Pk., Je–Sep (Brb); **SI**, Je–Sep, *Bno* (Ds, EPV); **LI**: Yaphank, *Bno, Eng, Ds* (Bno); Cold Sp. Harb., Jl–Aug, *EPButler* (Huss, Brb); Maspeth (Ols); Wading R. (Brb, Ols); Bay Shore, Hempstead (Ols); Huntington, *Schott* (Ols); Flatbush, *Zab* (Brb); Pinelawn, *Schott* (Ols); Half Way Hollow Hills (Ds); Amagansett, *Sf* (BM); Jamaica, Flushing, Long Beach, *Eng* (Brb); May–Sep. Throughout LI on *Daucus Carota* (Ols).

RHYTIDOLOMIA Stål

101 **R. saucia** Say. Rye Beach, Jl (Bno); **SI**: salt meadow, May, Sep–Nov (Brb, Ds); **LI**: Rockaway Beach, *div.* (Ols, Brb–BM); Springs (Ds); Aqueduct (Ds, Brb, Ols); Bellport, *Nic* (BM); Coney I., *Schott* (Ols); Flatbush, Amagansett, *Eng* (BM); Bergen I., Cypress Hills (Brb–AM); Long Beach, Montauk, *Schott* (Ds); Sea Cliff, *Bks*; Orient Pt. (EPV–NYS); May–Nov. Confined mostly to salt marshes; often taken on *Spartina patens* on LI (Parsh).

102 **R. senilis** Say. Rye Beach, Aug (Bno); NYC, Oct (Brb); **SI**, Jan, Ap–May, Sep, Dec (Brb, Ds); **LI**: Sands Pt., *Bs* (Ds); Rockaway Beach (Ds, Brb, Ols); Orient, *Lath* (Ds); Aqueduct, *Ds* (Ols); Central Pk., *Sf, Eng* (Ols–BM); Flatbush, *Eng*, Promised Land, *Eng* (BM); Coney I., *Zab*, Cypress Hills (Brb–AM); Hempstead (Ols); Brooklyn, *Schott* (Ols); Melville, *Schott;* Pinelawn, *Eng* (Ols); Amityville, *Ols* (Brb); Yaphank, near beach in rushes and grasses (Bno); Ap–Jan.

CHLOROCHROA Stål

106 **C. persimilis** Horv. (*uhleri* Stål, vide VanD.). Keene Val., Sep, *Not* (Brb); Cranberry L., Aug (Drk); Lewiston, Jl, *Wat* (Brb); New Russia, Je, *EABlunt* (Felt); Rochester, Aug, *Wendt, HESummers* (Ols, EPV); Niagara Falls, Je, Lockport, Aug, Elma, Aug, Hamburg, May (EPV); Pike, Ap (EPV–NYS); Batavia, Je–Sep (Kngt);

Buffalo, May–Oct (EPV); Brockport (Lint); Otto, Sep, Gowanda, Ithaca, May–Sep (EPV–CU); N. Chatham, May (Felt); Saratoga (Horv–NYS); Callicoon, Jl (Ds); W. Hebron, Aug, *Lg* (Ds); Helderbergs, Jl, *Wat* (Brb); Ramapo Mts. (Sf–BM); Pine I., Je (Brb); **LI**: Bayville, *Bks* (Ols); Amagansett, *Eng* (Ols–BM); Promised Land, *Ds* (Ols); Wading R. (Ols); Central Pk. (Ds); Calverton, *Eng* (Sf–BM); May–Sep.

MORMIDEA Amyot and Serville

111 **M. lugens** Fab. Keene Val., Aug, *Not* (Brb); Cranberry L., Je–Sep, *H* (Drk, Huss); Mt. Whiteface, Je (Ds); Hastings, Jl (Ds); Buffalo, Hamburg, Je (EPV); Lancaster (EPV); Batavia, Je–Aug (Kngt); Ithaca, Jl–Aug, *Comst*, *Atkinson* (EPV–CU); Motts Corners, Aug, *Comst* (EPV–CU); L. George, Aug, *Zab* (Brb–AM); Poughkeepsie, Je (EPV–NYS); Debruce, Sep (Ds); Ulster Co, Sep; Kingston, Aug (EPV); Ramapo, May, *Bno* (EPV); Scarsdale, Aug (Bno); Pine I., Je (Brb); White Plains, Mar–Aug, Dec, under stones, Carmel, Aug 1 (Bno); Larchmont, Aug (Brb); Crugers, Jl, Nyack, Aug (Brb–AM); Mt. Vernon, Je (Woodr); Bronxville, Jl (Woodr); **SI**, Je–Aug (Ds, Ols); **LI**: (Ols); Forest Pk., *Bno* (EPV); Cold Sp. Harb., *EPButler* (Huss, Brb); Flushing (Ols); Yaphank (Ols, Ds); Hempstead (Ols); North Beach (Ols); Flatbush, *Zab* (Brb–AM); Southport, Wading R., Montauk (Ds); S. Huntington, Aug (Bno); Ap–Nov.

SOLUBEA Bergroth

117 **S. pugnax** Fab. Rye Beach, Aug (Bno); **LI**: Long Beach, *Eng* (BM); Rockaway Beach; Cold Sp. Harb. (Brb); Rockaway Pk. (Ols); May–Oct.

EUSCHISTUS Dallas

121 **E. euschistoides** Voll. Generally distributed throughout the State. Wilmington, Saranac L., Jl (Ds); Keene Val. (Not); Cranberry L. (Drk); Axton, Je (M&H); Indian L., Cascade L., Aug (Brb); Buffalo, Hamburg, Gowanda (EPV); Batavia, Jl–Sep (Kngt); Lewiston, *Wat* (Brb); Portageville, Aug (Kngt); Ithaca; Oliverea, Nov (Ds); Debruce, *Dow* (Bno); L. George, W. Hebron, Sep (Lg); Karner (NYS); Albany, May (EPV); Rye, Sep (Ds); White Plains, Carmel, Armonk (Bno); Scarsdale (Bno); Pine I., Sep (Brb); Ramapo, Suffern, Sep (Brb); Grand View, Nyack, Je (Brb); Bronxville, Je–Sep (Woodr); Mosholu, May–Aug (Bno); Bronx Pk., May (Brb); **LI**: Cold Sp. Harb.; Wading R.; Wyandanch; Montauk; Long Beach; Rockaway; Yaphank; Amagansett; Half Way Hollow Hills; May–Sep.

124 **E. politus** Uhl. Karner, Sep (NYS); West Pt., May–Je; **SI**, Je (Ds); **LI**: Flatbush (Ols); Rockaway Beach, May (Ds); Pinelawn, Je (Ds); Smithtown, Je (Ds); Yaphank (*div.*); Amagansett, Sep (Ds); Wading R. (*div.*); Half Way Hollow Hills (Ds); Wyandanch, *Schott* (Ols).

125 **E. tristigmus** Say. Generally distributed throughout the State. Thousand Isls. (Ds); Keene Val., Je (Not, Eng); Axton, Je (M&H); Manlius, *SmHH* (EPV); Cascade L., Indian L., Jl–Aug (Brb); L. Placid, Aug (EPV); Mt. Whiteface, Jl (Ds); Cranberry L. (Drk, etc.); Saranac L., Sep (Ds); Rochester, *Wendt* (Ols); Albion, Aug (NYS); Batavia, May–Sep (Kngt); Buffalo, Lancaster, Hamburg, Gowanda,

Jl–Aug (NYS); Rock City, Je (Kngt, Ds); Portageville, May (Kngt); Geneva, Aug (Huss); Ithaca, May–Sep (CU); McLean, Jl, Mud Cr., Je, Ellis to Slaterville, Slaterville to Caroline, Je (EPV–CU); Callicoon, Debruce, E. Jewett, Oliverea, Je–Sep (Ds); L. George, Jl (AM); W. Hebron, Aug–Sep (Lg); Albany (NYS); Poughkeepsie (NYS); West Pt., Ft. Montgomery, May–Jl (Ds); White Plains, Sep (Huss); Armonk, Je, Scarsdale, Aug (Bno); Grand View, Nyack, Je (Brb); Pine I., Je (Ds); Mosholu, Jl, *Bno* (EPV); Van Cort. Pk., Sep (Ols); **SI**, May–Oct (Ds); **LI**: Cold Sp. Harb. (Brb, Huss): Flushing, Bay Shore, Rockaway Beach, Hempstead (Ols); Queens, *Schott* (Ols); Flatbush (AM); Yaphank, *Eng* (BM); May–Sep.

126 **E. variolarius** Pal. de Beauv. Common throughout the State, feeding on numerous kinds of plants (Brb); Cascade L., Aug (Brb); Pike (NYS); Fulton, Je (CU); Cranberry L., Jl–Aug (Drk); Rochester, *Wendt* (Ols); Batavia, Je–Sep (Kngt); Portageville, Aug (Kngt); Buffalo, Otto, Hamburg, Colden, Gowanda (EPV–CU); E. Aurora, Jl (Brb–AM); Rock City, Je (Ds); Ithaca, Caroline to Harford (CU); L. George, Aug (Brb–AM); W. Hebron, Aug–Sep, *Lg* (EPV); Karner, Round L. (NYS); Albany, Coeymans (NYS); Debruce, *Dow* (Bno); Oliverea, Callicoon, Jl, Sep (Ds); West Pt., May–Oct (Ds); Hastings, Jl, *Joutel* (Ds); Scarsdale, White Plains, Aug (Bno, Huss); Ramapo, Jl (Ds); Van Cort. Pk., Mosholu, Je–Sep, *Bno* (EPV); Kings Bridge, Sep (Brb); **SI**, Mar–Oct, also found hibernating in old nest of red-eyed vireo, Feb 24 (Ds); **LI**: Brooklyn (Ds, Ols); Aqueduct, Oct (Brb); Cold Sp. Harb. (Huss, Brb); Forest Pk. (Bno, EPV); Rockaway Beach (Ds, Ols); Wading R. (Ds, Ols); Yaphank (Ds); Wyandanch (Ols); Orient (AM); May–Sep.

127 **E. ictericus** L. Batavia, Je–Aug (Kngt); Buffalo, Cheektowaga, Je–Sep (EPV); White Plains, Aug (Bno); Pine I., Sep (Brb); Inwood, Oct (Ds); Bronx Pk. (Brb–AM); **SI**, Je–Sep (Ds); **LI**: Aqueduct, Flushing R., Promised Land, Wading R. (Ds); Maspeth, Rockaway Beach (Ols); Je–Oct.

COENUS Dallas

139 **C. delius** Say. Generally distributed throughout the State, collected on mullein (Brb); Mt. Whiteface, Wilmington, Jl (Ds); Cascade L., Indian L., Aug (Brb); Cranberry L., Jl (Drk); Onondaga Co, May, *H* (Huss); Rochester, *Wendt* (Ols); Batavia, Je, Sep (Kngt); Oakfield, Je (Not); Buffalo, Hamburg, Ap–Sep (EPV); Portageville, Je (Ds); Ithaca, Mar–Jl; Karner, Sep (NYS); W. Hebron, Sep, *Lg* (Ds); E. Jewett, Aug (Ds); Ft. Montgomery, Jl (Brb); Saugerties, Aug (Brb); White Plains, Ap, Sep (Ols, Huss); W. Nyack, Sep (Ols); Pine I., Je (Ds); Bronxville, Je (Woodr); Mosholu, Sep, *Ds*, *Eng* (Ols); **SI**, May–Sep (Ds); **LI**: Montauk, Deep Pond at Wading R., Half Way Hollow Hills (Ds); Flatbush, Rockaway Beach (AM); Amagansett, Greenport, Central Pk. (BM); S. Huntington, Aug (Bno).

HYMENARCYS Amyot and Serville

140 **H. aequalis** Say. NYC (EPV); **LI**: Long Beach, May, *Eng* (BM).

143 **H. nervosa** Say. Albany, May (EPV–NYS); **SI**, Je, Aug, *Bno* (EPV); **LI**: Yaphank, *Ds* (Ols, Brb–AM), Flatbush, Rockaway Beach, *Schott* (Brb, Ols–AM); Wading R. (Ols); Cold Sp. Harb. (Brb); May–Oct.

NEOTTIGLOSSA Kirby

145 **N. undata** Say. Throughout the State (Brb). Cascade L., Indian L., Aug (Brb); Axton, Je (M&H); Cranberry L., Je–Aug (Drk, Huss); L. Placid, Phoenicia, Aug (EPV); Essex, Je (NYS); Rochester, Jl, *Wendt* (Ols); Batavia, Je–Sep (Kngt); Oakfield, Je, *Not* (Brb); Portageville, May (Kngt); Buffalo, Gowanda, Hamburg, Lancaster, Colden, Je–Sep (EPV); Ithaca, Je–Jl (CU); **LI:** Yaphank, Oct (Ds).

COSMOPEPLA Stål

149 **C. bimaculata** Thom. Throughout the State, common on mints and other plants (Brb). Potsdam (EPV); Keene Val., Je, *Not* (Brb); Cranberry L., *H* (Huss); Cascade L., Aug (Brb); Wilmington, Jl (Ds); Axton, Je (M&H); Rochester, *Wendt* (Ols); Batavia, Portageville, May–Sep (Kngt); Buffalo (EPV); Sonyea, Jl, *Lint* (NYS); Rock City, Je (Ds); Ithaca, May–Aug (CU); Binghamton, Jl (Brb); Oliverea, Je–Sep (Ols, Ds); Pine Hill (AM); Callicoon, E. Jewett, Jl–Aug (Ds); L. George, Jl (AM); W. Hebron, Je–Sep, *Lg* (CU); Albany, Je, Nassau, Aug (NYS); Hudson, Je, *Eng* (BM); Loomis (Huss); White Plains, May–Sep (Bno); Armonk, Je (Bno), as *lintneriana* Kirk.; Suffern, Aug, *Sf* (BM); Mosholu, Aug, *Bno* (EPV); **LI:** Flatbush, Huntington (Ols); Forest Pk., Je (EPV, Ols); Cold Sp. Harb., Jl (Huss, Brb); Winfield, Maspeth (Ols); Wading R., Je *Schott* (Ols); Je–Sep.

MENECLES Stål

155 **M. insertus** Say. Lewiston, May (EPV); Ithaca, Mar, Dec (Kngt); West Pt., Je, *Sf* (BM); White Plains, Mar, Feb 22, hibernating, *Farley* (Bno); **SI:** Richmond, Nov, St. George, Aug (Ds); **LI:** Rockaway Beach, May, Oct, *Schott*, *Ds* (Ols); Wading R., Je, *Schott* (Ols); Flatbush, May, *Zab* (Brb); Long Beach, Ap–Je, L. Ronkonkoma, May, *Schott* (Ols); Ap–Je.

THYANTA Stål

158 **T. custator** Fab. Spread throughout the State (Brb). Cranberry L. (Drk); Buffalo, Ap (EPV); Mosholu, Je–Sep, *Bno* (EPV); **SI,** Jl (Ds); **LI:** Huntington, May, *Schott,* Yaphank (Ols); Rockaway Beach (Ols); Calverton, *Eng* (BM); Amagansett, *Sf* (BM); Montauk, Riverhead, Wading R. (Ds); Flatbush, *Eng* (Ols); May–Sep.

160 **T. calceata** Say. Ft. Montgomery, Jl, *Ds* (Brb); **LI:** Flatbush, Nov, *Schott* (Bno); Cold Sp. Harb., Aug (Brb).

MURGANTIA Stål

172 **M. histrionica** Hahn. HARLEQUIN CABBAGE BUG. Oswego (How); Elmira, *Beckwith* (Felt); **LI:** Jamaica (How); Orient Pt., *Lath* (Felt). Occasional (Brb). Sometimes injurious to cabbage on LI.

ACROSTERNUM Fieber

(*Nezara* Amyot and Serville, in part)

179 **A. pennsylvanicum** DeG. **SI:** Feb, Watchogue, Sep (Ds); **LI:** Huntington, *Schott*, *Eng* (Ols); Yaphank (Ols, Brb); Rockaway Beach, Wading R. (Brb); Calverton (Ds); Baldwin, *Hein* (Ols); May–Sep. Swept from young oaks, not common (Brb).

181 **A. hilare** Say. A common species in the southern part of the State, throughout LI and SI (Brb). Buffalo, Jl–Aug, Oct (EPV); Batavia, Jl–Sep (Kngt); Albany, Sep (EPV–NYS); L. George, Sep, *Zab* (Brb–AM); West Pt., Je (Brb); Ft. Montgomery, Jl, *Ds* (EPV); White Plains, Ap–Sep (Bno); Scarsdale, Sep (Bno); W. Nyack, Sep (Ols); Grand View, Je (Brb); Rye, Oct (Ds); Katonah, Jl, *Zab* (Brb–AM); **SI,** Ap–Oct (Ds); **LI:** Rockaway, Oct, *Schott* (Bno); Cold Sp. Harb., Jl (Brb); Oyster Bay (Bno); Cypress Hills, Flatbush, *Zab* (Brb–AM); Little Neck, *Schott* (Ols); Wading R., *Schott* (Ols); Calverton, *Eng* (BM); Yaphank, *Eng* (Ols); Wyandanch, *Schott* (Ols); Hempstead (Ols); Promised Land, Amagansett (Ds); Orient, *Lath* (Ds); May–Oct.

BANASA Stål

182 **B. dimidiata** Say. Throughout the State (Brb). Essex Fells, Aug, *Nic* (Sf–BM); Mt. Whiteface, Jl (Ds); Old Forge, Je (EPV–NYS); Newstead, Je (EPV); Cranberry L. (Drk); Axton, Je (M&H); Rochester, Je, *Wendt* (Ols); Albion, Aug, Niagara Falls, Je (EPV); Buffalo, Aug–Sep (EPV); Batavia, Je–Jl (Kngt); Portageville, Je (Kngt); Portage, Je (Ds); Gowanda (EPV); Cattaraugus, Je (Kngt); Rock City, Je (Ds); Oliverea, Je, Aug–Sep, *Shoe* (Ds); L. George, Aug–Sep, *Zab* (Brb–AM); Sullivan Co, *Lg* (Brb); West Pt., Je, on shadbush (Ds); White Plains, Sep (Brb); Marlborough, Jl (Sf–BM); **SI,** Je–Aug (Ds); **LI:** Brooklyn, *Dow,* Wyandanch (Ols); Quogue, *Zab,* North Beach, *Palmer* (Brb); Rosedale, Gardiners I. (Schott); Rockaway Beach (Ols, Ds); Calverton (Ds); Orient, *Lath* (Ds); Coram (Ds); Amagansett, *Eng* (BM); May–Sep.

184 **B. calva** Say. Buffalo, Aug–Oct (EPV); Hamburg, Aug–Oct, Gowanda, Aug (EPV); Wyoming Co, Je (Kngt); Ithaca, Je–Jl (EPV–CU); Orange Co, Jl (Brb); Scarsdale (Bno); Ft. Montgomery, May (Brb); W. Nyack, Aug (Bno); **SI,** Oct (Ds); **LI:** Harbor Hill, Sea Cliff, *Bks* (Ols); North Beach, *Plm* (Brb); Amagansett, *Eng* (Ols); Mar–Sep.

186 **B. sordida** Uhl. **LI:** Huntington, Feb, *Schott* (Ols). An unusual record (Brb).

188 **B. euchlora** Stål. **LI:** Long Beach, Mar, *Schott* (Ols). Occurs on cedar in the South; an unusual record (Brb).

DENDROCORIS Bergroth

194 **D. humeralis** Uhl. Karner, May (EPV–NYS); Ulster Co, Sep, *Nic* (Ds), found on oaks; West Pt., Je (Ds); Ft. Montgomery, May–Jl, *Ds* (Brb, EPV); **LI:** Yaphank; Huntington, Wyandanch, *Schott* (Ols); Wading R., *Ds, Ols* (Brb); Kings Pk., Shelter I. (Brb); Amagansett, *Eng* (Ds, Sf–BM); Pinelawn, *Eng* (Ds, Sf–BM); Bay Shore (Ols); Southold, Rockaway Beach, Central Pk., Riverhead, Massapequa (Ds); Bayville Beach (Bks); Deer Pk., Aug (Bno); May–Sep.

SUBFAMILY ACANTHOSOMATINAE

MEADORUS Mulsant and Rey

203 **M. lateralis** Say. Cascade L., Indian L., Aug (Brb); L. Tear, Jl, Keene Val., Aug, *Not* (Brb); Mt. Whiteface, Jl (Ds); Cranberry L., Je–Aug, *H* (Huss, Drk); L. Placid, Aug (EPV); Axton, Je (M&H); Hamburg, Boston, Aug (EPV); Ithaca, Jl (Kngt); Oliverea, Je (Ds); White Plains, Oct, sifting (Huss); Ft. Montgomery, May (Brb); **SI,** Sep (Ds); **LI:** Rosedale and Fire I. Beach (*Schott*); Rockaway Beach (Ds, Ols); Yaphank (Ds); Wyandanch, Nov, *Schott* (Bno); May–Aug. Occurs particularly on yellow birch and beech (Brb).

ELASMOSTETHUS Fieber

204 **E. cruciatus** Say. Axton, Je (M&H); Plattsburg, Wilmington, Mt. Whiteface, Jl (Ds); Keene Val., Je, *Not* (Brb); Cascade L., Aug (Brb); Cranberry L., Aug (Drk); Brant L., Aug, *Doll* (Sf–BM); Ithaca, Je–Jl, Oct, *div.* (EPV–CU); McLean, Je–Jl (Kngt); L. George, Aug, *Zab* (Brb); **LI:** Yaphank (Brb); Rockaway Beach, *Bno* (Ols); Je–Sep. Occurs commonly on alder (Brb).

206 **E. atricornis** VanD. Cranberry L., Aug (Drk); Boston, Aug (EPV); Ithaca, Jl–Aug (EPV–CU).

SUBFAMILY ASOPINAE

STIRETRUS Laporte

207 **S. anchorago** Fab. Rochester, Jl, *Wendt* (Ols); Ithaca, Je, Aug (EPV–CU); NYC, *Wat* (Brb); **LI:** Rockaway, Je, *Eng* (Ols). These belong to var. *fimbriatus* Say. Predacious, as are all of the members (Brb).

PERILLUS Stål

215 **P. splendidus** Uhl. **SI:** St. George, Jl 5, 1917, in house at light, *Ds* (Brb).

216 **P. bioculatus** Fab. Buffalo, Nov, Elma, Aug, *MCV* (EPV); Batavia, Aug–Sep (Kngt); **LI:** Yaphank (Bno).

217 **P. circumcinctus** Stål. St. Lawrence (EPV); Cranberry L., Jl–Aug (Drk); Ilion (EPV–NYS); Buffalo, Je–Aug (EPV); Hamburg, Lancaster, Elma, Je (EPV); Batavia, Jl (Kngt); Ithaca, Jl (EPV–CU); Callicoon, Jl (Ds); White Plains, Jl (Bno); **SI,** Je (Ds); **LI:** Rockaway Beach, *Eng* (Ds); Roslyn (Bks); Montauk (Schott); Long Beach, *Eng* (Sf–BM); Central Pk., *Doll* (Sf–BM); Yaphank, usually in company with bright blue larvae of a chrysomelid beetle, often numerous (Bno); May.

218 **P. exaptus** Say. New Russia (EPV–NYS); Mt. Whiteface, Aug (Ds); Cranberry L., Aug (Drk); Mosholu, Je, *Bno* (EPV); Van Cort. Pk., May (Brb); **SI,** Jl (Ds); **LI:** Montauk, Little Neck (Schott); Long Beach, *Eng* (Sf–BM); Rockaway Beach, *Ds, Sf* (Ols); Ap–Jl.

MINEUS Stål

221 **M. strigipes** H-S. Essex Fells, Aug, *Nic* (Sf–BM); Cranberry L., Jl–Aug (Drk); White Plains, Ap, Jl, Sep (Bno); Mosholu, *Bno* (EPV); Van Cort. Pk., Jl (Brb); **SI,** Feb, Je–Jl, sifting (Brb, Ds); **LI:**

Huntington, *Schott* (Ols); Wading R. (Ds); Massapequa, *Shoe* (Ds); Cold Sp. Harb. (Brb); Flatbush, *Zab* (Brb–AM); Maspeth (Ols); Rockaway Beach (Brb); Long Beach, *Eng* (Sf–BM); Wyandanch, Mar, *Schott* (Bno); Mar, May–Oct.

APATETICUS Dallas

224 **A. cynicus** Say. Buffalo, Je, Sep, Gowanda, Colden, Lancaster, Aug (EPV); predacious, particularly on caterpillars; Newport, Aug (EPV–NYS); Manlius, Aug, *SmHH* (EPV–CU); Batavia, Aug (Kngt); Jamestown (Lint); Ithaca, Jl–Sep (EPV–CU); New Baltimore, Jl, *Zab* (Brb); Callicoon, Jl, E. Jewett, Aug (Ds); Allaben, Aug, *Pears* (Ols); Debruce, *Dow* (Bno); West Pt., Jl, *Sf* (Brb); White Plains, Aug (Bno); Sloatsburg (Brb); **SI**, Jl–Aug (Ds); **LI**: Yaphank, Jl, *Ds, Schott* (Ols); Fire I. (Schott); Amagansett (Sf); North Beach, *Schott* (Ols); Orient, Montauk, Wading R., Central Pk. (Ds); Long Beach, *Shoe* (Ds); Jl–Sep.

225 **A. bracteatus** Fitch. L. Placid, Sep, *Eng* (Sf–BM); Batavia, Jl, Sep (Kngt); Hamburg, Aug (EPV); Jamestown (Lint); E. Jewett, Aug (Ds); **SI**, Sep (Ds); **LI**: Rockaway Beach (Brb, Ols); Glendale, *Doll* (Sf–BM); Fire I. (Ds); Flatbush, *Zab* (Brb); Jl–Oct.

PODISUS Herrich-Schaeffer

227 **P. maculiventris** Say. Common all over the State (Brb). Mt. Whiteface, *Lg* (Brb); Axton, Je, *M&H* (EPV); Cranberry L. (Drk); Cascade L., Aug (Brb–AM); Onondaga Co, May, *H* (Huss); Fayetteville (EPV–CU); Rochester, Jl, *Wendt* (Ols); Buffalo, May–Sep (EPV); Gowanda, Aug, Hamburg, Jl (EPV); Batavia, Je–Sep, Portageville, Je (Kngt); Ithaca, May–Oct, *div.* (EPV–CU); Albany, May (EPV–NYS); Karner, Oct (EPV–NYS); L. George, Sep, *Zab* (Brb–AM); Coeymans, *EBSmith* (Lint); W. Hebron, Aug–Sep, *Lg* (EPV, Ds); Callicoon, Jl, Oliverea, Sep (Ds); Saugerties, Jl (Brb); Pine I., Sep (Brb); Scarsdale, Aug (Bno); Kings Bridge, Sep (Brb); White Plains, Feb, Sep (Bno, Huss); Mosholu, Je–Oct (Bno–AM); Ft. Montgomery, Jl, Ramapo, May (Ds); **SI**, Ap–Nov (Ds); **LI**: Long Beach, Amagansett, *Eng* (Sf–BM); Flatbush, *Zab* (Ols, Brb–AM); Cold Sp. Harb. (Brb); Aqueduct (Brb, Ds); Shelter I., *Plm* (Brb); Rockaway Beach; Yaphank, Wading R., Montauk (Ds); Maspeth (Ols, Ds); Orient, *Ds*, Hempstead, Wyandanch (Ols); Huntington, *Schott* (Ols); Canarsie (Ols); Central Pk. (Ds); May–Oct.

227½ **P. fretus** Ols. **LI**: Wyandanch, *Schott* (Ols); Rockaway Beach, *Nic* (Ols); Promised Land, Sep (Ds); Ap–Sep.

228 **P. serieventris** Uhl. All over the State (Brb). Axton, *M&H* (EPV); Mt. Whiteface, Jl (Ds); Cranberry L., Je–Sep (Drk); L. Placid, Aug (EPV); Rochester, Jl, *Wendt* (Ols); Helderbergs, Jl, *Wat* (Brb); Slide Mt., Jl (Ds); White Plains, Dec, sifting (Bno); Bronx Pk., Mar, *Wat* (Brb); **LI**: Huguenot (Brb–AM); Farmingdale, Patchogue (Ds); Bay Shore (Ols); Long Beach, *Eng* (Sf–BM); Yaphank, *Bno, Eng* (Sf–BM); Sea Cliff (Bks); Amagansett, *Eng* (Ols); Rockaway Beach, *Bno, Dickerson* (Bno, Brb); Oyster Bay, Aug (Bno); May–Oct.

229 **P. modestus** Dall. All over the State (Brb). Axton, Je (M&H); Ilion, Newport, Johnstown, Elm L., Aug–Sep (EPV–NYS); Cranberry L.,

Je–Sep (Drk); Cascade L., Aug (Brb); Mt. Whiteface, Jl (Ds); Conesus, Aug (Ds); Buffalo, May–Sep, Gowanda (EPV); Batavia, Aug, Portageville, May (Kngt); Branchport, Je, *Snow* (Lint); Ithaca, Je–Sep (Kngt, EPV–CU); Mud Cr., Tompkins Co, Je (EPV–CU); Four Mile, Jl (Kngt); Phoenicia, Aug (EPV); Slide Mt., Jl (Ds); Oliverea, Je, *Shoe*, Ulster Co, Sep, *Nic* (Ds); Stanford, Aug (EPV); West Pt., Jl, Sep (Brb, Ds); Kiamesha; Bangall, Sep, *Eng* (Sf–BM); Scarsdale, Aug–Sep (Bno); Ramapo, Sep (Ds); Ft. Montgomery, Sep (Schott); **LI:** W. Nyack, Aug (Bno); Fire I. (Schott); Amagansett, *Ds, Eng* (Sf–BM); Selden (Ds); Yaphank, *Ds* (Brb); Flatbush, *Zab* (Brb, Ols); Brooklyn, *Dow* (Ols); Wading R., Rockaway Beach (Brb); Long Beach, *Schott* (Ols); Ap–Sep.

230 **P. placidus** Uhl. Spread all over the State (Brb). Cranberry L., Je–Aug (Drk); Rochester, Jl, *Wendt* (Ols); Batavia, Je–Aug (Kngt); Rock City, Jl (Kngt); Four Mile, Je (Kngt); Karner, May (EPV–NYS); West Pt., Je (Ds); Pine I., Je (Brb); **SI**, Je–Sep (Ds); **LI:** Fire I., Aug (*Ds, Schott*); Wyandanch (div.); Rockaway Beach, *Eng* (Ds, Sf–BM); Amagansett, *Eng* (Sf, Ds–BM); Yaphank, *div.* (Brb, Bno–AM); Wading R., *Ds* (Brb, Ols); Pinelawn, *Ds* (Brb, Ols); Flushing, *Zab*, Shelter I., *Plm* (Brb); Riverhead, Coram, Central Pk., Half Way Hollow Hills, Massapequa (Ds); Oakdale, *Schott* (Ols); Aqueduct, *Ds*, Wyandanch, *Schott* (Ols).

FAMILY **COREIDAE**

SUBFAMILY **MEROCORINAE**

MEROCORIS Perty

236 **M. distinctus** Dall. Hamburg, Mar, Jl, Oct, Boston, Aug (EPV); Ithaca, (Morr); L. George, Aug, *Zab* (Brb–AM); Karner, Sep (EPV–NYS); Ulster Co, Sep, *Nic* (Ds); Saugerties, Jl (Brb); Sullivan Co, *GFrank* (Ols); Pine I., Sep (Brb); Nyack, *Zab* (Brb–AM); White Plains, Sep–Oct, *Ds* (Bno); Mosholu, Jl, *Bno* (Heid); Ft. Montgomery, Jl (Bno, Ds); Van Cort. Pk., Sep (AM); **SI**, Je–Sep (Ds); **LI:** Yaphank, Amagansett, Wading R., Montauk, Half Way Hollow Hills, Pinelawn (Ds); May–Sep. Considered as a var. of *typhaeus* Fab. by EPV and as a subspecies of the same by McAtee.

SUBFAMILY **COREINAE**

ACANTHOCEPHALA Laporte

242 **A. terminalis** Dall. West Pt., Je (Ds); Scarsdale, Sep (Bno); Ft. Montgomery, May–Je (Brb, Schott); Crugers, Je (Brb–AM); Ramapo, May (Ds); White Plains, Jl (Bno); Mosholu, Sep, *Bno* (Heid); Van Cort. Pk., Jl (Ds); NYC (Brb); **SI**, May–Sep (Ds); **LI:** Wyandanch, *Schott* (Ols, Bno); Hempstead (Ols); Wading R., *Ds* (Brb); Je–Sep.

LEPTOGLOSSUS Guérin

244 **L. phyllopus** L. **LI**, *Gibbs* (Uhl). This is a very unusual record, possibly an error (Brb).

246 **L. corculus** Say. **SI:** St. George, Oct (Ds); **LI:** Hempstead (Ols); Rockaway Beach, *div.* (Ds, Ols); May–Sep.

248 **L. oppositus** Say. **SI**, Oct (Ds); **LI:** Cold Sp. Harb., from mulberry (Brb); Jl.

249 **L. fulvicornis** Westw. Buffalo, Oct (EPV); White Plains, Jl (Bno); **LI:** Rockaway Beach, Oct, *Schott* (Brb). Usually on magnolia.

ARCHIMERUS Burmeister

271 **A. alternatus** Say. West Pt., Je–Jl (Brb, Ds); Nyack, Je–Jl (Ds, Brb); Ft. Montgomery, May (Brb); White Plains, Jl–Sep (Bno); Mosholu, May–Jl, *Bno* (Heid); Van Cort. Pk., Sep (Brb–AM); **SI**, Ap, Jl, Sep (Ds); **LI:** Forest Hills, Sep–Oct (Parsh, Ols); Brooklyn, May, *Nic* (Ols); Cypress Hills, May, *Zab* (Brb–AM); Rockaway Beach, Je, *Schott* (Bno).

EUTHOCHTHA Mayr

276 **E. galeator** Fab. Hastings, Jl, *Joutel* (Brb); Karner, Je (EPV–NYS); Pine I., Je, *Ds* (Brb); Big I., Sep (Brb–AM); White Plains, Jl–Aug (Bno); Ft. Montgomery, Oct (Schott); Mosholu, Sep, *Bno* (Heid); **SI**, Je–Sep (Ds); **LI:** Aqueduct (Ds); Forest Hills (Ols); Jl–Sep.

CHARIESTERUS Laporte

283 **C. antennator** Fab. Van Cort. Pk., Jl (Brb–AM); **SI**, Je (Ds); **LI:** Rockaway Beach (Schott); Brooklyn, *Eng* (Sf–BM); Jan, Oct. Not common, found on dogbane (Brb).

ANASA Amyot and Serville

301 **A. tristis** DeG. SQUASH BUG. All over the State, injurious to squash, melons, and other cucurbits (Brb). Honeoye Falls, Je (Ds); Buffalo, Je (EPV); Colden, Mar (EPV); Karner, Oct (EPV–NYS); Alfred, Aug, *HCCoon* (Lint–NYS); Coeymans, *SmEB* (Lint–NYS); White Plains, Je–Sep (Bno); Yonkers, Sep (Huss); White L., Sep (Brb–AM); West Pt., Oct (Ds); **SI**, Aug–Oct (Ds); **LI:** Flatbush, Jl–Sep, *Zab* (Brb–AM); Maspeth, Bay Shore, Aqueduct, Yaphank (Ols); Queens Village (Ols); Lynbrook, *Nic* (Ols); Je–Oct.

304 **A. repetita** Heid. Inwood, Oct (Ds); NYC, Oct, *Schott, Wat* (Ols, Brb); **LI:** Maspeth, Aug–Oct (Ols). Wild cucumber.

307 **A. armigera** Say. **LI:** Cold Sp. Harb. (Brb); Rockaway Beach (div.); Jl, Oct.

SUBFAMILY CORISCINAE

(*Alydinae*)

PROTENOR Haglund

312 **P. belfragei** Haglund. Saranac L., Sep (Ds); L. Placid, Aug–Sep, *Eng* (Sf, EPV–BM, NYS); Wilmington, Aug (EPV); Cranberry L., Jl–Sep (Dke); Buffalo, Nov (EPV); Lancaster, Aug (EPV–CU); McLean, Sep (Ruckes); White Plains, May–Oct (Bno); **SI**, Aug (Ds); **LI:** Aqueduct, Brooklyn (Ds); Jamaica, Aug, *Eng* (Sf–BM); Aug.

MEGALOTOMUS Fieber

320 **M. 5-spinosus** Say. Keene Val., Sep, *Not* (Brb); Chilson L., Jl, *Wat* (Brb); Hastings, Jl, *Eng* (Sf, Ds–BM); Rochester, Aug (EPV); Niagara

Falls, Aug, *Kilman* (EPV); Salamanca, Jl (EPV); Ithaca, Jl–Aug (EPV–CU); Binghamton, Jl (Brb–AM); Karner, Aug (EPV–NYS); Callicoon, Jl (Ds); Huguenot, Aug, *Zab* (AM); Ramapo, Je, Sep, *Bt* (Ds, Brb–AM); Ft. Montgomery, Sep–Jl (Schott, Ds); Bryn Mawr Pk., Jl (Brb–AM); White Plains, Jl–Sep (Bno); Mosholu, Je–Aug, *Bno* (Heid); **SI**, Jl–Sep, *Ols* (Ds); **LI**: Flatbush, *Zab* (Brb); Queens (Schott); Selden (Ds); Yaphank, *Eng* (Ds, Sf); Calverton (Ds); Amagansett, Smithtown (Ds); Forest Hills (Ols); Wyandanch, Oakdale, *Schott* (Ols, Bno); Jl–Oct.

CORISCUS Schrank

(*Alydus* Fabricius)

323 **C. eurinus** Say. Distributed throughout the State (Brb). Essex Co, Je (EPV–NYS); N. Elba, Oct, *Lg* (Ds); Wilmington, Jl (Ds); Cascade L., Aug (Brb); Cranberry L., Jl (Dke); Hastings, Jl, *Joutel* (Ds); Buffalo, Je–Jl (EPV); Hamburg, Sep, Conesus L., Aug (EPV); Callicoon, Jl (Ds); Catskills, Jl, *Eng* (Sf–BM); Grand View, Nyack, Je (Ds); White Plains, Jl–Sep (Bno); Mosholu, Mar–Oct, *Bno* (Heid); Scarsdale, Jl–Sep (Bno); Ft. Montgomery, Jl (Ds); Bangall, Sep, *Eng* (Sf–BM); Kings Bridge, Sep (Brb); Bryn Mawr, Sep (Brb–AM); Van Cort. Pk., Sep (Ds); **SI**, Je–Sep (Ds); **LI**: Pinelawn, Bellport (Ds); Yaphank (Ols, Ds); Rockaway Beach, Kissena Pk., Flushing, Hempstead (Ols); Long Beach (Brb–AM); Wading R. (Schott); Je–Sep.

324 **C. conspersus** Montandon. Cranberry L. (Dke); Long L. (Ds); Cascade L., Indian L., Aug (Brb); Keene Val., *Not* (Brb); Buffalo, Hamburg, Jl–Sep (EPV); Ithaca, Jl, *Shull* (Huss); L. George, Aug, *Zab* (Brb); White Plains, Je–Sep (Bno). Mostly northern part of the State.

327 **C. pilosulus** H-S. Wilmington, Jl (Ds); Ithaca, Jl, *Shull* (Huss); Karner, Aug, Kingston, Aug (EPV); White Plains, Jl–Oct (Bno); Grand View, Nyack, Je (Brb); Ft. Montgomery, Jl (Ds); Mosholu, Je–Jl, *Bno* (Heid); Scarsdale, Jl–Sep (Bno); Kings Bridge, Sep (Brb); **SI**, Je–Sep (Ds); **LI**: Brooklyn, Aqueduct, Half Way Hollow Hills, Pinelawn, Yaphank (Ds); Amagansett, *Eng* (Ds); Bellport, *Nic* (Ds); Central Pk., *Eng* (Sf–BM); Rockaway Beach, *Eng* (Sf–BM); Flushing, Wyandanch, Wading R., Maspeth, Hempstead, Bay Shore, Pinelawn (Ols); Forest Pk., *Bno* (Heid); Oakdale, *Schott* (Bno); Je–Sep.

TOLLIUS Stål

328 **T. curtulus** Stål. Kings Bridge, Sep (Brb). Rare.

STACHYOCNEMUS Stål

330 **S. apicalis** Dall. Uncommon (Brb). White Plains, Sep (Bno); **LI**: Aqueduct (*div.*); Woodhaven (Brb–AM); Ap, Sep.

CERALEPTUS Costa

332 **C. americanus** Stål. Rare (Brb). **LI**: Rockaway Beach, Oct, *Schott* (Ols).

SUBFAMILY CORIZINAE

HARMOSTES Burmeister

336 **H. reflexulus** Say. Gowanda, Aug, Ithaca, Jl–Aug (EPV); Carmel, Aug (Brb–AM); Poughkeepsie, Sep (EPV–NYS); Ulster Co, Aug, *Nic* (Ols); Pine I., Je (Brb); Saugerties, Aug (Brb); Ramapo, May, *Bno* (Ds); Ft. Montgomery, Jl, *Bno* (Ds); White Plains, Jl–Oct (Bno); Scarsdale, Aug (Bno); Mosholu, Aug–Sep (Bno); **SI,** Jl–Oct (Ds); **LI:** Yaphank (Brb–AM); Orient (Brb–AM); Aqueduct (Ds, Brb); Massapequa, Manorville (Ds); Cold Sp. Harb. (Ds, Brb); Wading R. (Brb, Ds); Pinelawn, Calverton, *Eng* (Sf–BM); Bay Shore (Ols); Huntington, *Schott* (Ols); Little Neck, Feb, Wyandanch, Oct, *Schott* (Bno); May–Oct.

CORIZUS Fallén

345 **C. crassicornis** L. Keene Val, Aug, *Not* (Brb); Cranberry L., Jl–Aug (Dke); L. Placid, Sep (EPV); Axton, Je (M&H); Wilmington, Jl, Saranac L., Sep (Ds); Cascade L., Indian L., Aug (Brb); Hamburg, May, Jl, Boston, Elma, Aug, Lancaster, Gowanda, Aug (EPV); Batavia, Aug (Kngt); Wyoming Co, Sep (Kngt); Rock City, Je (Ds); Otto, Jl (Hambleton–CU); Ithaca, Jl–Aug, Freeville, Aug (Hambleton–CU); Phoenicia, Aug (EPV–NYS); Debruce, Sep (Ds).

348 **C. lateralis** Say. All over the State (Bks). Cranberry L., Jl (Dke); Buffalo, Je, Gowanda, Aug, Hamburg, May–Je (EPV); Batavia, Je (Kngt); Ithaca, Jl (Hambleton–CU); Coy Glen, Je (Ds); Albany, Je (NYS); Mosholu, Jl–Aug, *Bno* (Heid); White Plains, Jl–Sep (Bno); Scarsdale, Aug (Bno); Kings Bridge, Sep (Brb); Van Cort. Pk., Sep (Bno); **SI,** Aug–Oct (Ds); **LI:** Winfield (Ols); Little Neck (Schott); Orient (Brb–AM); Flatbush, *Eng* (Sf–BM); Long Beach, Pinelawn, *Eng* (Sf–BM); Maspeth, Yaphank, Hempstead, Canarsie, Bay Shore (Ols); Aqueduct, Central Pk., Massapequa (Ds); May–Nov.

349 **C. bohemanii** Sign. Axton, Je (M&H); L. Placid, Sep (EPV); Keene Val., Je, *Not* (Brb); Cascade L., Aug (Brb); Hamburg, Colden, Jl, Buffalo, May–Oct, Gowanda, Aug (EPV); Genesee Co, Wyoming Co, Je (Ds); Ithaca, Je–Sep (Hambleton–CU); Ellis, Slaterville, Mud Cr., Tompkins Co, Je (Hambleton–CU); L. George, Aug, *Zab* (Brb–AM); Phoenicia, Aug (EPV–NYS); Oliverea, Jl, *Shoe* (Ols); Saugerties, Aug, West Pt., Jl (Brb); White Plains, Aug–Sep (Bno).

355 **C. hirtus** Bno. **LI:** Yaphank, Sep, *Eng,* Fire I., Jl (Bno). Found hibernating under Hudsonia (Brb).

FAMILY ARADIDAE [13]

ARADUS Fabricius

360 **A. aequalis** Say. Niagara Falls, May (EPV); Ithaca, Ap, *Alex* (Parsh); McLean, May (Parsh); W. Hebron, Je, *Lg* (Heid).

379 **A. crenatus** Say. Keene Val., Sep, *Eng* (Parsh); Ithaca, May, West Pt., Je, *Ds,* Catskills (Parsh).

361 **A. quadrilineatus** Say. Cranberry L., Jl (Drk); Cobble Hill, Aug (EPV); Mt. Whiteface, Jl, *Ds* (Parsh); Fulton Co, *Alex* (Morr); Niagara

[13] The arrangement of species in this family is that of Parshley's *Essay.*

Falls, Ap (EPV); Buffalo, Oct, *EPV* (Parsh); Colden, May, Hamburg, Je, *EPV* (Parsh); Lancaster, *EPV* (Bergroth); Ithaca, Ap, *Plunkett* (Parsh); L. George, Jl, *Zab* (Parsh); Schenectady, Aug (Parsh); West Pt., Je, *Ds* (Parsh); Southfields, May, *Schott* (Parsh); Sloatsburg, Nov (Parsh); Ft. Montgomery, May (Parsh); White Plains, Ap, *Bno* (Parsh); **SI**, Ap–May, *Ds* (Parsh); **LI**: Rockaway Beach, *Brb* (Parsh); Wyandanch (Schott); L. Ronkonkoma (Schott); Yaphank, *Nic* (Parsh); Promised Land, *Eng* (Bno); Ap–Dec.

365 **A. ornatus** Say. Cranberry L., Jl (Drk).

362 **A. robustus** Uhl. Occurs throughout the State (Brb). Cranberry L., Jl (Drk); Wilmington, Jl (Ds); top of Mt. Whiteface, Jl, *Ds* (Parsh); Orleans Co, Je, *Ds* (Parsh); Gowanda, Aug, Colden, May, *EPV* (Parsh); E. Concord, May, *EPV* (Bergroth); Ithaca, Ap, *Plunkett* (Parsh); Batavia, May (Kngt); Debruce, Jl, *Ds* (Parsh); Sloatsburg, Nov, *Schott* (Ols); White Plains, Je, Dec, *Bno, Ols* (Parsh, Huss), from sifting; Ft. Montgomery, Je, *Ds* (Heid); **LI**: Rockaway Beach (Ds); Flatbush, *Zab* (Brb); Wyandanch, Cold Sp. Harb., *Sf, Schott* (Parsh); Mar–Je.

364 **A. duzeei** Bergr. Rochester, *Wendt* (Bergr); Ithaca (Bergr).

392 **A. proboscideus** Wlk. (*hubbardi* Heid.). Cranberry L., Jl, *Drk*, Saranac L., Sep (Parsh).

— **A. basalis** Parsh. Saranac L., Sep, *Ds* (Parsh).

371 **A. similis** Say. Top of Mt. Whiteface, Jl (Ds); Cranberry L., *Drk* (Parsh); Lake Bluff, Je (EPV); Lancaster, *EPV* (Bergr); Ithaca (Parsh); Chauncey, Mar, *Not* (Parsh); White Plains, Mar–Ap, *Bno* (Parsh); Van Cort. Pk., *Ang* (Parsh); **SI**: Ap, *Ds* (Parsh); **LI**: Yaphank, May, *Ols* (Parsh); Rockaway Beach, May (Brb); Huntington, Ap, *Schott* (Ols); Ap–May. Under spruce and hemlock bark (Drk), and in shelf fungus on birch.

375 **A. acutus** Say. **LI**: Huntington, Wyandanch, *Schott* (Bno).

377 **A. shermani** Heid. **LI**: Yaphank, Je, *Eng* (Bno).

A. approximatus Parsh. **LI**: Wyandanch, Je, *Schott* (Parsh).

384 **A. uniformis** Heid. West Pt., Je, *Sf* (Parsh); **LI**: Flatbush, *Zab* (Parsh); Rockaway, *Brb, Ds*, Fire I., *Bno*, Wyandanch, *Sf* (Parsh); Huntington, Ronkonkoma (Schott); May–Jl.

382 **A. tuberculifer** Kby. Cranberry L., Jl, *Drk* (Parsh); Ithaca, Je (Uhl); **LI**: Rockaway Beach, Je, *Ds* (Parsh).

383 **A. funestus** Bergr. Buffalo, Feb, hibernating (EPV).

386 **A. lugubris** Fall. Cranberry L., Jl (Drk); Rochester Jct., Je, *Leon* (Parsh); Buffalo, Je, Hamburg, Aug, Colden, Jl, *EPV* (Bergr); Ithaca, May (Parsh); Nyack, *Zab* (Parsh); White Plains, Jl (Bno); **LI**: Bay Shore, *Ols*, Flatbush, *Schott* (Parsh); Je, Sep.

387 **A. abbas** Bergr. All over the State (Brb); Axton, Je (M&H); Cranberry L., Je–Jl (Drk); Saranac L. (Parsh); Colden, Jl, *EPV* (Bergr); Hamburg, Je (EPV); Buffalo, May, *MCV* (EPV); Ithaca, Jl, *Plunkett* (Parsh); Huguenot, Jl (Brb–AM); Saugerties, Jl, *Brb* (Parsh); White Plains, Aug, *Bno* (Parsh); **LI**: Bay Shore, *Ols* (Parsh); Fire I., *Bno*, Wading R., *Schott*, Maspeth, *Ols* (Parsh); Rockaway Beach, *Eng* (Bno); Ap–Sep.

— **A. uniannulatus** Parsh. **LI**: Pinelawn, Je, *Ds* (Parsh).

389 **A. falleni** Stål. White Plains, Feb (Bno), sifting; **SI** (Ds); **LI**: Rockaway Beach, Yaphank, *Bno* (Parsh).

391 **A. cinnamomeus** Panz. **SI**, Je (Ds); **LI**: Bay Shore, *Ols*, Wyandanch, *Schott, Ds*, Yaphank, *Ols, Bno*, Central Pk., Pinelawn, *Ols* (Parsh); Cold Sp. Harb., Aug (Bno); Amagansett (Ds); Huntington, Wyandanch, Wading R., L. Ronkonkoma, *Schott* (Bno); Ap–Sep. Frequents pine (Brb).

395 **A. niger** Stål. Ausable R., Aug (EPV); Cranberry L., Jl (Drk); Buffalo, Sep (EPV); Hamburg, Sep, Ithaca, Ap, *EPV* (Parsh); L. George, Aug, *Zab* (Parsh). Bark of dead pines (Brb).

NEUROCTENUS Mayr

408 **N. simplex** Uhl. Ithaca, May (Morr); White Plains, Aug (Bno); NYC, Ap (Brb); **SI**, Ap–May (Ds); **LI**: Hempstead Plains (Eng); Massapequa, *Shoe*, Yaphank (Ds); Wyandanch, *Schott* (Bno); May–Sep.

ANEURUS Curtis

414 **A. inconstans** Uhl. Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Cranberry L., Je–Jl (Drk); Niagara Falls, Ap (EPV); Buffalo, Feb–Ap, Hamburg, May, Sep, Colden, May, Gowanda, Aug (EPV); E. Jewett, Aug (Ds); White Plains (Bno); Rye L., Sep (Bno); Grand View, Nyack, Je (Brb); Tuckahoe, Nov, *Schott* (Parsh); **LI**: Rosedale, *Schott* (Parsh); Rockaway Beach (Ds); Yaphank (Brb); May–Nov.

415 **A. simplex** Uhl. Cranberry L., Jl (Drk); Van Cort. Pk., Mar (Brb); **LI**: Queens Village, Wyandanch, *Schott* (Parsh); Central Pk., *Eng*, Jamaica, Huntington, *Schott* (Parsh); Northport, *Schott* (Ols); Cypress Hills, *Zab* (Brb–AM); Feb–Aug. Common under bark (Brb).

417 **A. fiskei** Heid. West Pt., Aug, *Robn* (BM); White Plains, Jan–Ap, Sep–Nov (Bno); Rye L., Sep (Bno); **SI**, Je (Ds); **LI**: Wyandanch, *Schott* (Ols); Yaphank (Brb); Queens, *Sf* (Bno); Cold Sp. Harb., *Butler* (Huss); May–Sep.

FAMILY NEIDIDAE or BERYTIDAE

SUBFAMILY NEIDINAE Van Duzee

NEIDES Latreille

419 **N. muticus** Say. Cascade L., Indian L., Aug (Brb); Keene Val., Sep, *Not* (Brb); L. Placid, Sep, *Eng* (Bno); Cranberry L., Jl–Aug (Drk); Colden, Jl, Lancaster, Aug (EPV–CU); Batavia, Je–Aug (Kngt); Portageville, May–Aug (Kngt); Rock City, Je (Ds); Ithaca, Jl, Oct, *Bks* (EPV, Kngt–CU); McLean, Ap (Morr); Taughannock Falls, Jl, *Summers* (EPV–CU); Phoenicia, Aug (EPV–NYS); L. George, Jl–Sep, *Zab* (AM); West Pt., Je (Ds); Pine I., Je–Oct (Brb); Nyack, Je (Brb, Ds); Ft. Montgomery, Sep, *Schott* (Ols); White Plains, Jl–Sep (Bno); **SI**, Aug (Ds); **LI**: Cold Sp. Harb., Aug (Brb).

SUBFAMILY METACANTHINAE

JALYSUS Stål

420 **J. multispinus** Ashm. **LI:** Bayville (Brb–AM).

421 **J. spinosus** Say. Lancaster, Aug (EPV); Ithaca, Aug (CU); Debruce, Sep (Ds); West Pt., Je–Jl (Brb, Ds); Ramapo, May (Ds); Nyack, May (Schott); White Plains, Ap–Sep, Scarsdale, Aug–Sep, Rye L., Sep (Bno); **SI,** Sep (Ds); **LI:** Yaphank (Bno, Brb); Cold Sp. Harb. (Brb); Bay Shore, Maspeth, Queens Village, Wyandanch (Ols); Flatbush, *Zab* (Brb–AM); Melville, Wading R., *Schott* (Bno); May–Oct.

FAMILY LYGAEIDAE

SUBFAMILY LYGAEINAE

ONCOPELTUS Stål

432 **O. fasciatus** Dall. NYC, *Geisell* (Ols); **SI,** Je–Oct (Ds); **LI:** North Beach, *Schott* (Ols); Coram (Ds); Cold Sp. Harb. (Brb); Glendale, *Kch,* Bellport, *Nic,* Floral Pk. (Sf–BM); Aug–Sep.

LYGAEUS Fabricius

434 **L. turcicus** Fab. Lancaster, *Palmer,Jr* (EPV); **LI:** Flatbush, Dec, *Eng* (Bno).

437 **L. kalmii** Stål var. **angustomarginatus** Parsh. Throughout the State, on milkweed (Brb). Cranberry L., Jl–Aug (Drk); Axton, Je (M&H); top of Mt. Whiteface, Jl, Wilmington, Jl (Ds); Hastings, Jl, *Joutel* (Ds); Lancaster, Aug (EPV–CU); Buffalo, Je (EPV–CU); Hamburg, Ap (EPV); Batavia, Je–Aug (Kngt); Aurora, Jl (Brb–AM); Ithaca, Aug, Oct (EPV, Morr, Huss); Callicoon, Jl (Ds); Fallsburg (Huss); Saugerties, Jl (Brb); Pine I., Je (Ds); White Plains, Jl (Bno); Rye Pond, Je (Brb–AM); **SI,** Je–Aug (Ds); **LI:** Flatbush, *Zab* (Brb–AM); Maspeth, Bay Shore (Ols); Rockaway Beach, *Shoe* (Ols); Aqueduct, *Ds* (Brb); Massapequa, *Ds* (Brb); Calverton (Ds); Orient, *Lath* (Ds); Wading R., Cold Sp. Harb. (Brb); Je–Oct.

452 **L. bicrucis** Say. **SI:** Watchogue, May (Ds); **LI:** Rockaway Beach, May–Je, *Eng* (Ds, Sf–BM), May, *Nic, Shoe*; Half Way Hollow Hills, Jl (Ds).

460½ **L. tripunctatus** Dall. **LI:** Yaphank, Jl, *Bno* (Brb).

ORTHOLOMUS Stål

461 **O. scolopax** Say (*longiceps* Stål). Throughout the State, on grasses (Brb).
462 Indian L., Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); Cranberry L., Jl–Aug (Drk); Buffalo, Jl, Sep, Hamburg, Jl–Sep (EPV); Aurora, Jl (Brb–AM); L. George, Aug, *Zab* (Brb–AM); Karner, Aug, Jl, *Wat, Yg* (Brb–NYS); Kingston, Aug (EPV–NYS); Saugerties, Aug, Pine I., Sep (Brb); White Plains, Je–Sep (Bno); **SI,** Sep (Ds); **LI:** Winfield, Maspeth, Bay Shore, Yaphank (Ols); Brooklyn (Ds); Orient, *Schott,* Aqueduct (Brb); Jl–Oct.

NYSIUS Dallas

466 **N. californicus** Stål. Cascade L., Aug (Brb).

468 **N. thymi** Wolff. Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); L. Placid, Sep (EPV, Ds); Buffalo, May–Aug (EPV); L. George, Aug, *Zab* (Brb–AM); E. Jewett, Aug (Ds); **LI:** Wyandanch, Je, *Schott* (Bno).

470 **N. ericae** Schill. FALSE CHINCH BUG. All over the State, on grasses, etc. (Brb). Axton, Je (M&H); Speculator, Aug (NYS); L. Placid, Aug–Sep (EPV); Cranberry L., Jl–Aug (Drk); Hamburg, Aug (EPV); White Plains, Mar–Oct (Bno); **LI:** Sea Cliff, *Bks* (EPV); Cold Sp. Harb., *Butler* (Brb, Huss); Orient (Brb–AM); Yaphank, *Eng* (Ols, Ds, Bno); Huntington, *Schott* (Brb, Ds); Wyandanch, *Schott* (Brb, Ols); Bay Shore, Maspeth, Hempstead (Ols); Aqueduct, *Ds* (Brb); Ap–Oct.

BELONOCHILUS Uhler

473 **B. numenius** Say. Buffalo, May, Colden, Aug (EPV).

SUBFAMILY CYMINAE

ISCHNORHYNCHUS Fieber

476 **I. resedae** Panz. (*geminatus* Say). Recorded as *I. geminatus* Say throughout
477 the State (Brb). Axton, Je (M&H); L. Placid, Aug (EPV); Cranberry L., Jl–Aug (Drk); Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Mt. Whiteface, Jl (Ds); Long L., Huckleberry Mt., Cold R. (Horvath); Buffalo, May–Je, Hamburg, Jl, Gowanda, Aug, Salamanca, Jl, Elma, Je (EPV); Batavia, Aug, Portageville, May, Cattaraugus Co, Je (Kngt); West Pt., Jl, Saugerties, Aug (Brb); White Plains, Ap–Sep (Bno); **SI,** Jan–Oct, often taken sifting (Ds); **LI:** Huntington, *Schott* (Brb); Amagansett, Wyandanch, *Sf* (Bno, Ds); Cold Sp. Harb., *Butler* (Huss); Wading R., *Ds* (Brb); Orient (Brb–AM); Flatbush, *Zab* (Brb–AM); Flushing, Hempstead, Bay Shore, Central Pk., Maspeth, Port Washington, Forest Hills (Ols); Flatbush, *Eng* (Ols); Massapequa, *Shoe*, Yaphank (Ds); Huntington, *Schott* (Bno).

CYMUS Hahn[14]

483 **C. luridus** Stål. Cranberry L., Jl–Dec (Drk); Cascade, Aug (Brb); Buffalo, Jl (EPV); Pine I., Je (Brb); White Plains, May–Aug (Bno); Stony Pt., Je (Ds); **LI:** Babylon, Aug (Bno); Yaphank, May, *Ols* (Brb); Aqueduct, Fire I. (Ds); May–Oct.

C. robustus Brb. Carmel (type locality), Mt. Kisco, Jl, *Bno* (Brb); **LI:** Cold Sp. Harb., Jl.

484 **C. angustatus** Stål. Throughout the State (Brb). Cascade L., Aug (Brb); Cranberry L., Je–Aug (Drk); Adirondacks (EPV); L. Placid, Sep (EPV); Newport, May, *Yg* (NYS); Lancaster, Aug (EPV–CU); Buffalo, May–Oct (EPV); Batavia, Je–Jl, Portageville, May, Aug, Cattaraugus Co, Je (Kngt); Karner, May, *Yg* (NYS); Saugerties, Aug, Pine I., Je (Brb); Tuxedo, May (Brb); White Plains, May–Je, Scarsdale, May, Rye Beach, Jl (Bno); **SI,** Mar, Aug (Ds); **LI:** Cold Sp. Harb. (Brb); Flushing (Ols, Ds); Massapequa (Ds); Yaphank (Ols, Ds); Wading R. (Ds); Maspeth, Forest Hills (Ols); May–Aug

[14] Members of this genus occur on grasses and sedges.

485 **C. discors** Horv. Throughout the State (Brb). Axton, Je (M&H); L. Placid, Sep, Adirondacks, Aug–Sep (EPV); Long L., Cold R. (Horv); Cranberry L., Je–Sep (Drk, Brb); Cascade L., Aug (Brb); Keene Val., Je, *Not* (Brb); Newport, May, *Yg* (NYS); Buffalo, Jl (EPV); Hamburg, May, Jl, Colden, Jl, Gowanda, Aug (EPV); Batavia, Jl (Kngt); L. George, Aug, *Zab* (Brb); White Plains, May–Aug (Bno); Mosholu, Nov, sifting (Brb); **LI:** Yaphank, Je (Brb); Bay Shore, Jl, Wyandanch, Aug (Ols); Je–Aug.

487 **C. breviceps** Stål. **LI:** Cold Sp. Harb., *Aug* (Bno).

SUBFAMILY **BLISSINAE**

ISCHNODEMUS Fieber

489 **I. falicus** Say. Oneida L., *Drk* (Brb); Buffalo, Je (EPV); Cayuga L., Oct, *Kngt* (Bno); Pine I., Je (Brb); White Plains, May–Je, Oct (Bno); Kensico, May (Bno); **SI**, Oct–Nov, sifting on edge of salt meadow (Brb); **LI:** Brooklyn, Rockaway Beach (Ols); New Lots (Brb–AM); Flatbush, Mar, *Schott* (Bno); May.

BLISSUS Burmeister

496 **B. leucopterus** Say. CHINCH BUG. Throughout the State, on wild grasses (Brb). Cascade L., Indian L., Aug (Brb); Wallface Mt., Je, *Not* (Brb); Hammond (Lint); Morristown (Lint); Oakfield, Je, *Not* (Brb); Buffalo, Ap, Jl–Aug, Hamburg, May–Je (EPV); Pike, Mar (NYS); Batavia, May–Je, Portageville, May (Kngt); Lancaster (EPV); Gowanda, Aug (EPV); Norton's Landing, *SmHH* (CU); Freeville, Aug (CU); Peruville (Felt); Watervliet (Lint); Debruce, Sep (Ds); Carmel, Aug (Brb–AM); White Plains, May–Sep (Bno); NYC, Oct (Huss); **LI:** Maspeth (Ols); Flushing, *Dow* (Ols); Winfield (Ols); Rockaway Beach, May–Sep, *Ds* (Ols); Long Beach, Huntington (Schott, Bno); Flatbush, *Zab* (Brb–AM); Cold Sp. Harb. (Brb); Brighton Beach (Brb); Wading R., *Ds* (Brb); Ap–Nov.

— **B. leucopterus** var. **arenarius** Brb. **SI**, Sep, *Ds* (Brb); **LI:** Coney I., *Zab*, Rockaway Beach (Brb); Wading R. (Ds); May–Sep.

SUBFAMILY **GEOCORINAE**

GEOCORIS Fallén

499 **G. bullatus** Say. Speculator, Jl, *Yg* (NYS); Cranberry L., Jl (Drk); Cascade L., Indian L., Aug (Brb); Buffalo, Je, Sep (EPV); E. Aurora, Aug (EPV); Batavia, Sep (Kngt); West Pt., Jl (Brb); White Plains, May–Sep (Bno); **LI:** Little Neck, *Schott* (Brb); Aqueduct, *Ds* (Brb); North Beach, Flushing (Ols); Massapequa, Wading R. (Ds); Amagansett (Ds); May–Nov.

499c **G. bullatus** var. **discopterus** Stål. White Plains, May, Aug–Sep (Bno); **SI** (Ds); **LI:** Amagansett, Sep. *Ds* (Brb).

502 **G. uliginosus** Say. Cascade L., Aug (Brb); Cranberry L., Jl (Drk); L. Placid, Aug (EPV–NYS); Colden, Jl, Buffalo, Je, Ithaca, Sep (EPV–CU); White Plains, Sep (Bno); **LI:** Cold Sp. Harb., Aug, Aqueduct, Oct (Brb); Flatbush, Sep, *Zab* (Brb–AM); Huntington, *Schott* (Brb); Maspeth, Sea Cliff, Rockaway (Ols); Yaphank (Ols); Feb–Dec.

G. uliginosus var. **lateralis** Fieb. Cascade L., Indian L., Aug (Brb); Cranberry L., Aug (Drk).

G. uliginosus var. **speculator** Montd. Boston, Hamburg, Aug (EPV).

G. uliginosus var. **limbatus** Stål. Buffalo, Sep, Hamburg, Jl–Aug, Lawtons, Colden, Aug (EPV).

HYPOGEOCORIS Montandon

(*Isthmocoris* McAtee)

507 **H. piceus** Say. Carmel, Aug, White Plains, Ap–Oct (Bno); Tuxedo, May (Brb); Rye Beach, W. Nyack Aug (Bno); **LI:** Flushing, Aug, Canarsie, Ap (Ols); Wyandanch, *Schott* (Brb, Bno); Huntington, Aug (Bno); Cypress Hills, *Zab* (Brb–AM); Yaphank, *Eng* (Bno); Ap–Dec.

SUBFAMILY PACHYGRONTHINAE

PHLEGYAS Stål

513 **P. abbreviatus** Uhl. Throughout the State (Brb). Debruce, Aug, *Mutchler* (Brb–AM); Cascade L., Indian L., Aug (Brb); Keene Val., Jl, *Not* (Brb); Wilmington, Jl (Ds); Axton, Je (M&H); Buffalo, Je–Sep (CU); Hamburg, May–Je, Lancaster, Aug, Gowanda, Aug (EPV); Batavia, Je, Cattaraugus Co., Je (Kngt); Ithaca, Je–Sep (CU); L. George, Aug, *Zab* (Brb–AM); W. Hebron, Aug, *Lg* (Ds); E. Jewett, Aug (Ds); Poughkeepsie, Je (NYS); Saugerties, Aug, Pine I., Je (Brb); White Plains, Jl (Bno); Tuxedo, May (Brb); Ramapo, May (Ds); Marlborough, Jl, *Sf* (BM); **SI,** Je (Ds); **LI:** Bellport, *Nic* (Sf–BM); Cold Sp. Harb. (Brb); Bay Shore, Yaphank (Ols); Pinelawn, Wading R. (Ds); May–Aug.

OEDANCALA Amyot and Serville

515 **O. dorsalis** Say. Throughout the State (Brb). Cranberry L., Jl (Drk); Buffalo, May–Aug, Lancaster, Jl, Hamburg, May, Conesus L., Aug (EPV); Karner, Je (NYS); Saugerties, Aug, *Brb*, Ft. Montgomery, Jl, *Schott* (Brb); White Plains, Mar, Je–Jl, Dec, sifting, Armonk, Je (Bno); Charlotte, Je (Brb–AM); **LI:** Fishers I. (Brb–AM); Wyandanch (Ols); Bay Shore (Ols); Aqueduct, *Shoe* (Ols); Yaphank (Ols, Ds); Wading R. (Brb); Cold Sp. Harb., *Butler* (Huss).

SUBFAMILY OXYCARENINAE

CROPHIUS Stål

519 **C. disconotus** Say. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Colden, Aug (EPV); Tompkins Co, Feb, sifting (Ruckes); Phoenicia, Aug (EPV); Pine I., Sep (Brb); White Plains, Sep–Oct (Brb–Bno); Nyack, Jl, *Zab* (Brb); **LI:** Huntington, *Schott* (Brb); Wyandanch, *Schott* (Brb, Bno); Yaphank, *Eng* (Bno); Fire I. (Ds); Feb–Nov.

SUBFAMILY RHYPAROCHROMINAE

(*Myodochinae*)

MYODOCHA Latreille

526 **M. setripes** Oliv. Cranberry L., Jl (Drk); Buffalo, May–Je, Albany, May (EPV–NYS); Ft. Montgomery, Jl (Ds); White Plains, Dec, sifting (Bno); Nyack, Jl, *Zab* (Brb–AM); Scarsdale, Aug (Bno); Van Cort. Pk. (Sf–BM); **SI**, May–Nov (Ds); **LI**: Astoria, *Zab*, Cold Sp. Harb. (Brb); Flushing, Forest Hill (Ols); Rockaway Beach, *Dow*, *Schott* (Brb, Ols); Queens, Flatbush, Wyandanch, *Schott* (Bno); May–Sep.

HERAEUS Stål

528 **H. plebejus** Stål. Lancaster, Sep, Elma, Je, Hamburg, Ap, Aug (EPV); Batavia, Aug, Portageville, Aug (Kngt); White Plains, Ap–Oct (Bno); **SI**, Feb, May–Je, Dec (Ds), taken sifting in Feb (Brb); **LI**: Cold Sp. Harb. (Brb); Wyandanch (div.); Flatbush, *Zab* (Brb–AM); Aqueduct, *Shoe* (Ds); Flushing, North Beach (Ds); Mar–Oct.

SPHAEROBIUS Uhler

531 **S. insignis** Uhl. Indian L., Aug (Brb).

LIGYROCORIS Stål

537 **L. sylvestris** L. (*contractus* Say). Cascade L., Indian L., Aug (Brb); Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); Phoenicia, Jl (EPV–NYS); top of Mt. Whiteface, Jl, Saranac L., Sep (Ds); Long L. (Ds); L. Placid, Aug (EPV); Speculator, Aug, *Yg* (NYS); Buffalo, Je–Sep (EPV); Salamanca, Jl (EPV); Ithaca, Aug (EPV–CU); L. George, Jl–Aug, *Zab* (Brb–AM); E. Jewett, Aug (Ds); Oliverea, Sep, *Beq* (Ols); White Plains, Je–Aug (Bno); Stamford, Jl (EPV); **LI**: Rockaway, Wyandanch, Oct, *Schott* (Bno).

538 **L. diffusus** Uhl. Throughout the State (Brb). Cranberry L., Je–Aug (Drk); Cascade L., Aug (Brb); Keene Val., Aug, *Not* (Brb); L. Tear, Jl, *Not* (Brb); L. Placid, Aug–Sep (EPV); Niagara Falls, Jl, Lancaster, Aug, Buffalo, Je, Elma, Je, Hamburg, Aug–Sep, Conesus L., Aug, Salamanca, Jl–Sep (EPV); Batavia, Jl–Sep (Kngt); Oakfield, Je, *Not* (Brb); Canisteo, Je, *Not* (Brb); L. George, Jl–Aug, *Zab* (Brb–AM); West Pt., Jl (Brb); Carmel, Aug (Brb–AM); Yorktown Hgts., Sep (Ols); **SI**, Je–Sep (Ds); **LI**: Cold Sp. Harb., *Butler* (Huss); Amagansett, *Sf* (Bno); Bellport, *Nic* (Sf–BM); Maspeth, *Schott* (Ols, Brb); Flushing (Ols, Ds); Huntington, *Schott* (Ols); Bay Shore, Rockaway Beach (Ols); Aqueduct, Central Pk., Brooklyn, Yaphank, Montauk, Southold, Orient (Ds); Winfield (Ols); Ap–Sep.

— **L. depictus** Brb. Ithaca, Aug (Brb); White Plains, Je, *Bno* (Brb).

PERIGENES Distant

543 **P. constrictus** Say. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Lewiston, Jl, *Wat* (Brb); Phoenicia, Aug (EPV–NYS); Buffalo, Sep, Hamburg, Aug–Sep, Albion, Aug, Clarence, Sep (EPV); Batavia, Jl–Sep (Kngt); White Plains, Je–Aug (Bno); Van Cort. Pk., Sep (Bno); **SI**, Je (Ds); **LI**: Southold (Ds); Flatbush, Rockaway, *Schott* (Bno); Rockaway, Winfield (Ols); Je–Oct.

ZERIDONEUS Barber

545 **Z. costalis** VanD. Cascade L., Aug (Brb); Indian L., Aug (Brb); Batavia, Aug (Kngt); L. George, Aug, *Zab* (Brb); Ft. Montgomery, Jl (Ds); White Plains, Jl–Oct (Bno); **LI:** Huntington, *Schott* (Ols).

ORTHAEA Dallas

554 **O. basalis** Dall. Indian L., Aug (Brb); L. Placid, Aug, Buffalo, May–Aug, Lancaster, Aug (EPV); Hamburg, Aug (EPV); Scarsdale, Sep (Bno); White Plains, Je–Oct (Bno); Pine I., Sep (Brb); Mosholu, Jl, *Sf* (Brb); NYC, Ap (Brb); **SI,** May (Ols); **LI:** Cold Sp. Harb. (Brb); Mineola, Wyandanch, Melville, Rockaway, Huntington, *Schott,* Flushing, Jamaica (Ols); Mar–Sep.

PTOCHIOMERA Say

557 **P. nodosa** Say. **LI:** Aqueduct, Cold Sp. Harb. (Brb); Jl–Oct.

570 **P. ferruginea** Stål (*Carpilis*). Indian L., Aug (Brb); **LI:** Yaphank, Sep (Bno).

558 **P. clavigera** Uhl. NY (Uhl); **LI:** Aqueduct, Oct (Brb).

KOLENETRUS Barber

K. plenus Distant (*Rhyparochromus*). Indian L., Aug (Brb).

CNEMODUS Herrich-Schaeffer

566 **C. mavortius** Say. Lancaster, Oct (EPV); NYC (Brb); **SI,** May (Ds); **LI:** Bellport, *Nic* (Sf–BM); Yaphank, Wading R. (Ds); Rockaway Beach, Brookhaven, *Schott* (Ols, Bno); Je–Oct.

PSEUDOCNEMODUS Barber

569 **P. canadensis** Prov. Phoenicia, Aug, Niagara Falls, Aug (EPV); **LI:** Flatbush, *Zab* (Brb–AM); Fire I. (Bno); Yaphank, *Eng,* Wyandanch, Nov, S. Huntington (Bno); Jl–Sep.

OZOPHORA Uhler

571 **O. picturata** Uhl. White Plains, Nov, sifting (Bno); **LI:** Cold Sp. Harb., (Brb); Yaphank, *Eng* (Brb, Bno); Bellport, *Nic* (Sf–BM); Wyandanch, Rockaway, *Schott* (div.); Springfield (Ols); Ap–Aug.

ANTILLOCORIS Kirkaldy

578 **A. pilosulus** Stål. Buffalo, Ap, Gowanda, May, White Plains, Ap (EPV); Greenwood L., May, *Not* (Brb); **SI,** Nov (Ds); **LI:** Wading R., *Schott,* North Beach (Ols); Yaphank, *Eng* (Bno); Mar–Sep. In some cases probably confused with next species (Brb).

579 **A. pallidus** Uhl. Should occur all over the State; usually taken in sifting (Brb). Indian L., Aug (Brb); Cranberry L., Aug (Drk); Pine I., Je (Brb); Scarsdale, May (Bno); Tuxedo, May (Brb); Mosholu, Nov (Brb); White Plains, Armonk, Ap–Sep (Bno); **SI,** Feb (Ds); **LI:** Cold Sp. Harb. (Brb); Flushing, Aqueduct (Ols); Wyandanch, sifting (Ds); Ap–Aug.

PLINTHISUS Fieber

584 **P. compactus** Uhl. (*americanus* VanD.). Indian L., Aug (Brb).

PERITRECHUS Fieber

585 **P. fraternus** Uhl. Buffalo, Dec, hibernating, *MCV* (EPV); **SI,** Je, Sep, Nov (Ds); **LI:** Cold Sp. Harb. (Brb); Maspeth, Rockaway Beach (Ols); Long Beach, *Schott* (Ols, Bno); Promised Land, Greenport (Ds); Jan–Aug.

586 **P. paludemaris** Brb. **SI,** May (Brb); **LI:** Rosedale, Flatbush, *Schott* (Brb); Cypress Hills (Brb–AM); Bellport, *Nic* (Sf); Rockaway Beach (Bno); Feb–May. A salt-marsh species (Brb).

STYGNOCORIS Douglas and Scott

588 **S. rusticus** Fall. Indian L., Aug (Brb); Cranberry L., Aug (Drk).

S. pedestris Fall. Cranberry L., Aug (Drk); Indian L., Aug (Brb); Elka Pk., Catskills, Aug, *Drk* (Brb).

TRAPEZONOTUS Fieber

589 **T. arenarius** L. Indian L., Aug (Brb); top of Mt. Whiteface, Jl, *Ds* (Brb).

SPHRAGISTICUS Stål

592 **S. nebulosus** Fall. Buffalo, Sep (EPV); Batavia, Jl–Sep (Kngt); **LI:** Brooklyn (Ds); Mineola, *Schott* (Bno); Maspeth (Ols); Wyandanch, *Schott* (Brb); Jl–Aug.

MALEZONOTUS Barber

— **M. fuscosus** Brb. **LI:** Fire I. Beach, *Bno,* Huntington, *Schott* (Brb); Jl.

APHANUS Laporte

594 **A. umbrosus** Distant. Top of Mt. Whiteface, Jl, *Ds* (Brb); Colden (Horv).

EMBLETHIS Fieber

597 **E. vicarius** Horv. White Plains, Sep, Nov (Bno); **LI:** Aqueduct (Brb); Woodhaven, Springfield, *Schott* (Brb); Oct–Nov.

DRYMUS Fieber

598 **D. unus** Say. Cascade L., Indian L., Aug (Brb); N. Evans, Oct (EPV); S. Buffalo, *Fischer* (EPV); Lancaster, Sep (*EPV*); Gowanda, Aug (EPV); Ithaca, Oct (Kngt); W. Hebron, *Lg* (Brb); Ft. Montgomery, Sep, *Schott* (Brb); White Plains, Mar, Oct, Dec, sifting (Bno, Huss); Mosholu, Nov, sifting (Brb); **LI:** Sea Cliff, *Bks* (Brb); Yaphank (Brb, Bno); Flushing (Ols); Flatbush, *Zab* (Brb); Bellport, *Nic* (Sf–BM); Little Neck, Nov, *Schott* (Bno).

599 **D. crassus** VanD. White Plains, Dec, sifting (Bno); W. Hebron, Sep, *Lg,* Inwood, NYC, Sep (Ds).

EREMOCORIS Fieber

600 **E. ferus** Say. Cranberry L., Jl, Sep (Drk); Cascade L., Indian L., Aug (Brb); Wallface Mt., Jl, Keene Val., Je, *Not* (Brb); top of Mt. Whiteface, Jl (Ds); Colden, Jl (EPV); E. Aurora, *Wild* (EPV); Jamestown, Aug (EPV); Canisteo, Je, *Not* (Brb); W. Hebron, Sep, *Lg* (Ds); Ft. Montgomery, Aug, *Schott* (Brb); Suffern (Brb); White Plains, Ap, Sep–Oct, Dec, Carmel, Aug (Bno); **SI**, Ap, Jl (Ds); **LI**: Maspeth, Rockaway Beach (Ols); Brooklyn, *Shoe* (Ols); Long Beach, *Shoe* (Ds); Wyandanch, Wading R. (Ds); Flatbush, Cypress Hills, *Zab* (Brb–AM); Huntington, *Schott* (Bno).

XESTOCORIS Van Duzee

604 **X. nitens** VanD. Indian L., Aug (Brb); Colden, Aug (EPV); Buffalo, Mar, *Fischer,* Hamburg, Ap (EPV); Ithaca, *Bks* (Brb); Tuxedo, May, beneath clumps of dead grass (Brb). Gerhard has collected this species in burrows of field mice near Chicago (Huss).

CRYPHULA Stål

608 **C. parallelogramma** Stål. White Plains, Aug, Oct, *Bno* (Brb); **SI**, Feb, sifting (Ds, Brb); **LI**: Flushing, Forest Pk. (Ols); Little Neck, Rockaway Beach, Dec, *Schott* (Bno); Yaphank (Ds); Mar–May.

SCOLOPOSTETHUS Fieber

610 **S. thomsoni** Reuter. Indian L., Aug (Brb); Buffalo, May–Aug, Hamburg, Je, Chautauqua, May, Gowanda, Aug, Salamanca, Jl (EPV); White Plains, Je, *Bno* (EPV); **LI**: Yaphank (Brb); Wyandanch, *Sf* (Bno); May. This and the next two species are usually taken sifting dead leaves (Brb).

611 **S. atlanticus** Horv. N. Elba, *Lg* (Brb); Lancaster, Aug (EPV); E. Jewett, Ap (Ds); White Plains, May–Jl (Bno); Orangeburg, Ap, *Not* (Brb); **SI**, Aug, *Ds* (Brb); **LI**: Flushing, Aqueduct (Ols); Wyandanch, *Ds* (Brb); Mar–May.

612 **S. diffidens** Horv. Indian L., Aug, Mosholu, May (Brb); **SI**, Feb, sifting (Brb); **LI**: Wyandanch, *Schott* (Ols, Bno); Jamaica, *Nic* (Bno); Feb.

FAMILY PYRRHOCORIDAE

EURYOPHTHALMUS Laporte

617 **E. succinctus** L. Hague (Brb–AM); **LI**: Baldwin, Christian Hook (Ds); Rockaway Beach (Schott); May–Oct.

FAMILY PIESMIDAE

Compiled by CARL J. DRAKE

PIESMA Le Peletier and Serville

636 **P. cinerea** (Say). Cranberry L., Jl (Drk); Syracuse, Jl–Sep (Drk); Buffalo and vic., Je–Aug (EPV); Ithaca; Pine I., Je (Bno); White Plains, Mar–Oct (Bno); NYC (Bno); **LI**: Cold Sp. Harb., Aug (Brb). Common on its preferred food plant, lamb's-quarters (*Chenopodium album* L.); hibernating individuals found under bark of sycamore and birch, and among fallen leaves.

FAMILY **TINGITIDAE** Costa[15]

Compiled by CARL J. DRAKE

ACALYPTA Westwood

637¼ **A. lillianis** Bno. Adirondacks, Indian L., Aug (Brb); Corinth; Pine I., Je (Brb); White Plains, May–Jl (Bno); **LI:** Sea Cliff. Food plant, moss; collected by sifting moss and sphagnum.

CORYTHUCHA Stål

638 **C. ciliata** Say. Canastota, Mar, *Faure*; Syracuse, May–Je, Sep, Dec (Drk); Buffalo (EPV); Lancaster, Aug, Colden, Jl (EPV), Hamburg, May, Aug (EPV); Enfield Falls, Jl, *MacG*; Ithaca, Je–Jl, Sep, Oct, *Summers* (Morr); Poughkeepsie, Jl, *Yg* (NYS); White Plains, Feb–Oct (Ols&Bno); **LI:** North Beach, Sep (Plm); Flushing, Sep (Plunk); Wyandanch L., Aug (Ols). Very abundant on sycamore or buttonwood (*Platanus occidentalis* L.); hibernates beneath bark of sycamore and among fallen leaves on the ground.

639 **C. arcuata** (Say). Fulton Co, *Alex*; Syracuse, Sep–Oct (Drk); Buffalo and vic., Jl, Sep (EPV); Lime L., Aug (EPV); Machias (EPV); Ithaca, Jl, Dec; Poughkeepsie, May; Scarsdale, Aug (Bno); White Plains, May, Oct (Bno); **LI:** Cold Sp. Harb., Jl (Brb). Breeds on various species of oaks, and occasionally on chestnut, very rarely on maple and apple. Hibernates beneath leaves and in other secluded places on the ground.

C. arcuata var. **mali** Gib. Common, and perhaps more abundant than typical form; same distribution and food plants.

639⅛ **C. salicis** O. & D. Cranberry L., Wanakena, May–Sep (Drk); Lime L., Aug (EPV). Willow.

— **C. ulmi** O. & D. Nassau, Oct.

640 **C. pergandei** Heid. Wanakena, Cranberry L., May–Sep (Drk); Nassau, Oct; Syracuse, May–Je, Sep (Drk); Jamestown, Jl; Ithaca, Je–Jl, *Summers*; Karner, May, Oct; Voorheesville, all stages very abundant on hoary alder, *Leon* (Drk); Saugerties, Jl (Brb); White Plains, May–Je (Bno); Van Cort. Pk., Aug (EPV); **SI**, Feb, Je (Brb & Ds); **LI:** Wading R., May (Brb); Bay Shore (Ols); Flushing, Sep (NYS). Common on alder (*Alnus incana* (L.) Moench and *Alnus rugosa* (Du Roi) Spreng.), and rarely on plum (*Prunus americana* Marsh.); sometimes taken at light; adults found on ground during winter by sifting fallen leaves.

641¼ **C. pruni** O. & D. Colden, Jl (EPV); Salamanca, Aug (EPV). Wild black cherry (*Prunus serotina* Ehrh.).

645 **C. marmorata** (Uhl.) (*decens* VanD., in part). Syracuse, Aug–Sep (Drk); Rochester, Jl; Lancaster, Sep (EPV); Buffalo, Jl–Sep (EPV); Ithaca, Jl–Aug, *Summers*; Albany, Je–Sep (Fitch, Felt); Karner, Je; Coeymans, Je–Aug; White Plains (as *gossypii* Bno.); West Pt., Jl (Brb); **LI:** Cold Sp. Harb., Aug (Brb); Bay Shore, Hempstead, Jl (Ols); Yaphank, Jl, Flushing, Je (Ols). Occurs in large numbers on aster, goldenrod, *Ambrosia trifida*, and other Compositae.

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[15] In addition to the species listed herein, *Corythucha pallida* O. & D., *C. coryli* O. & D., *C. celtis* O. & D., *C. bulbosa* O. & D., *Gargaphia solani* Heid., *Gelchossa oblonga* (Say), *Teleonima nigrina* Champ., *Atheas insignis* Heid., *Leptoypha costata* Parsh., *Physatocheila major* O. & D., and *Dictyonota tricornis* var. *americana* Parsh., probably occur in New York State.

649 **C. juglandis** (Fitch). Speculator, Je, *Yg* (NYS); Delaware L., May, *Cy*; Mountain L., Ap 26, *Cy*; Hague, Aug, *Leon* (NYS); Wolcott, May (Leon); Syracuse, Sep–Oct (Drk); Niagara Falls, Aug, Lawtons, Sep; Colden, Jl, Gowanda, Aug (EPV); Ithaca, Je–Oct; Albany, Je–Aug, *Leon*; Phoenicia, Aug (EPV); Northfield, Ap 23 (NYS); Millerton, May (Leon); Amity, Je (NYS); Thomson, May (Leon); Pine I., Dec (Brb); White Plains (Bno&Ols); **LI**: Yaphank, Sep (Bno&Eng). On walnut and basswood.

649⅛ **C. mollicula** O. & D. Wanakena, Conifer, May–Sep (Drk); Lime L., Jamestown, Aug (EPV); Karner, Aug (NYS). On willow.

— **C. pallipes** Parsh. (*C. betulae* Drk., *C. cyrta* Parsh., *C. juglandis* VanD. not Fitch; *juglandis* and *pallipes* were confused by Fitch in his original description, also by various authors since then). Chapel Pond, Je, *Leon*; Delaware Lodge, May, *Cy*; Big Moose, Aug (NYS); North Elba, Je, *Leon*; L. Placid, Aug (EPV); Cranberry L., May–Oct (Drk); Hamburg, Je (EPV). White birch, beech, ironwood, and occasionally mountain ash and hard and soft maple; adults hibernate among fallen leaves.

— **C. heidemanni** Drk. Syracuse, Sep–Oct (Drk); Ithaca, Aug, *Summers*; White Plains, Sep (Bno). Elm (*Ulmus americana* and *U. fulva*).

— **C. bellula** Gib. Wanakena, Barber Pt., Cranberry L., Je–Aug (Drk); Ithaca, May–Sep (Wellhouse); Buffalo, Sep (EPV). *Crataegus neofluvialis, C. pruinosa, C. punctata*, etc., *Alnus incana, Ribes oxyacanthoides*; adults found in crevices of bark and among fallen leaves during winter months.

— **C. cydoniae** Fitch (639¼ *C. crataegi* O. & D., and spp. of various other authors). Syracuse, Sep–Oct (Drk); Ithaca, Je–Jl, *Summers*; Albany, Je–Oct; Nassau, May (NYS); **LI**: Yaphank (Bno). Hawthorn (*Crataegus* spp.), buttonbush (*Cephalanthus occidentalis*), Juneberry (Amelanchier); hibernates on ground among leaves.

— **C. elegans** Drk. Keene Val., Aug, *Not*; Adirondack Lodge, Je, *Leon*; Cranberry L., "The Plains," Conifer, May–Oct (Drk). Willow, poplar (*Populus tremuloides* Michx. and *P. grandidentata* Michx.); adults found among fallen leaves on ground during winter.

649½ **C. aesculi** O. & D. Rochester, Aug; Salamanca, Sep (EPV). Horse-chestnut (*Aesculus hippocastanum* L.); also feeds on buckeye (*A. glabra* Willd.).

649⅞ **C. associata** O. & D. Colden, Jl (EPV); **LI**: Cold Sp. Harb., Aug (Brb); Yaphank, May, Jl (Brb); Riverhead, Ap 11 (NYS). Wild black cherry (*Prunus serotina* Ehrh.).

— **C. cyrta** Parsh. Big Moose, Aug (NYS); L. Placid, Aug (EPV); Chapel Pond, Je, *Leon* (NYS); N. Elba, Jl, *Leon* (NYS); Delaware L., May, *Cy* (NYS); Voorheesville, Jl, *Leon* (NYS).

GALEATUS Curtis

651 **G. peckhami** (Ashm.). Cattaraugus Co (Kngt); Barber Pt., Cranberry L., Jl–Sep (O&D). Aster (*Aster macrophyllus* L.) and boneset (*Eupatorium* sp.). Locally distributed, but occurs in large numbers on knolls in semi-shady, dry situations.

STEPHANITIS Stål

652 **S. pyrioides** Scott. **LI**: Lynbrook (LCGriffith). Common laurel (*Kalmia latifola*) and *Rhododendron* sp.

GARGAPHIA Stål

654 **G. tiliae** Walsh. Keene Val. (Not); Syracuse, Sep–Oct (Drk); Lancaster, Sep, Hamburg, Jl, Gowanda, Aug, Buffalo and vic., Jl (EPV); Ithaca, Jl, *Summers* (NYS); Trenton Falls, Je (NYS); White Plains, May (Bno).

657 **G. angulata** Heid. Karner, May (NYS); Albany, Aug; Montgomery, Aug (Heid). *Ceanothus americanus* and *Solanum* sp.

— **G. amorphae** Walsh. "NY" (EPV, 1917, as var. of *G. tiliae*).

GELCHOSSA Kirkaldy

— **G. heidemanni** O. & D. **LI:** Wading R., May, Yaphank, Ap (Brb); Orient, May (NYS). *Baptisia tinctoria.*

PHYSATOCHEILA Fieber

665 **P. plexa** Say. White Plains, Je (Bno); **LI:** Yaphank, Sep (Bno).

— **P. plexa** var. **variegata** Parsh. "NY" (EPV, 1917, as a distinct species, 665½); Northampton, Je, *Yg* (NYS); Hamburg, Je, Gowanda, Aug (EPV); Salamanca, Jl (EPV); Suffern, May. Food plant unknown, but specimens have been collected on hickory.

665¼ **P. brevirostris** O. & D. "NY" (EPV, 1917). Food plant unknown.

CORYTHAICA Stål

658¼ **C. bellula** Bno. White Plains, Je–Jl (Bno&Ols).

LEPTOYPHA Stål

666 **L. mutica** (Say). Keene Val., Je (Not); Hamburg, Jl, Gowanda, Aug (EPV); Millerton, May, *Cy* (NYS). Fringe tree (*Chionanthus virginica* L.) and ash (*Fraxinus* spp.). Sometimes, rarely, taken at light.

LEPTOBYRSA Stål

— **L. rhododendri** Horvath. RHODODENDRON LACE BUG. Rochester (Felt); Ithaca, Je (Sling); West Pt., Jl (Brb); Port Jervis, Ap (Sling); Westchester Co, Sep (Bno); White Plains, Je–Sep (Bno); NYC (Bno); **LI:** Sea Cliff (Brb); Brooklyn, Jl (Griffith&Sanford). Rhododendron and laurel (*Kalmia latifola*).

MELANORHOPALA Stål

667 **M. clavata** (Stål). West Pt., Jl (Brb); Cold Sp. Harb., Jl–Aug (Brb, Parsh); White Plains, Je–Aug (Bno). Swept from rank weeds and grasses; food plant unknown.

HESPEROTINGIS Parshley

— **H. antennata** Parsh. **SI:** Huntington, Jl (Schott); **LI:** Fire I. (Bno). Food plant unknown.

ALVEOTINGIS Osborn and Drake

670½ **A. grossocerata** O. & D. White Plains, Aug (Bno); **LI:** Smith's Pt. (Bno). Food plant unknown; Bueno captured a specimen on a thistle.

FAMILY ENICOCEPHALIDAE

SYSTELLODERUS Blanchard

684 **S. biceps** Say. Potter Swamp, Je, *Fbs* (Joh); Ithaca, Jl–Aug (Joh); Interlaken, Jl, *Cy* (Joh, MacG–CU).

FAMILY PHYMATIDAE

PHYMATA Latreille

685 **P. vicina** Handl. Pine I., Je (Brb); Ramapo, May (Ds); White Plains, Aug, *Farley* (Bno); Van Cort. Pk., Jl (Brb–AM); Bronxville, May (Woodr).

689 **P. erosa** L. Batavia, Jl–Sep (Kngt); Ithaca, *Barnard* (CU); Coeymans, *SmEB* (Lint); W. Hebron, Aug (Bno); Ft. Montgomery, Aug (Schott); Scarsdale, Sep, W. Nyack, Aug (Bno); **SI,** Jl–Oct (Ds); **LI:** Brooklyn, Pinelawn, Yaphank, Wading R., Aqueduct, Flushing, Greenport, Riverhead (Ds); North Beach, *Schott* (Bno); Mar–Sep. Subspecies are not indicated in this series (Brb).

689a **P. erosa** subsp. **fasciata** Gray. Keene Val., Aug, *Not,* L. George, Aug, *Zab,* Nyack, Aug, *Zab* (Brb–AM); **LI:** Flatbush, *Zab* (Brb–AM); Cold Sp. Harb. (Brb); Oyster Bay (Bno); Jl–Aug.

689b **P. erosa** subsp. **wolffii** Stål. Keene Val., Aug, *Not* (Brb); Buffalo, Jl–Oct, Hamburg, Aug (EPV); Ithaca, Jl–Aug (EPV–CU); Albany, *Coleman* (Lint–NYS); Pine I., Sep (Brb); **LI:** Cold Sp. Harb., Aug (Brb).

FAMILY REDUVIIDAE

SUBFAMILY PLOIARIINAE [16]

(*Emesinae*)

EMPICORIS Wolff

(*Ploiariola* Reuter)

697 **E. errabundus** Say (*P. tuberculata* Bks.). White Plains, Aug, *Bno* (McAtee &Mall); **LI:** Cold Sp. Harb., *Meiner,* Sea Cliff, *Bks* (McAtee&Mall); Jl–Aug.

EMESAYA McAtee and Malloch

(*Emesa* auct. not Laporte)

709 **E. brevipennis** Say (*longipes* DeG.). Aurora, Jl (Brb–AM); Ithaca, Aug (CU); Coeymans, *SmEB* (Lint); Nyack, Sep (Brb–AM); W. Nyack, Jl (Ols); White Plains, Aug–Sep (Bno); Scarsdale, Sep (Bno); **LI:** Cold Sp. Harb. (Brb); Yaphank, Wading R. (Ds); Pinelawn, *Eng* (Sf–BM); Central Pk., *Schott* (Bno); Aug–Oct.

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[16] The arrangement of genera and species in this subfamily, and the nomenclature, are those of McAtee and Malloch's "Revision" in Proc. U. S. Nat. Mus., vol. 67, p. 1–153, 1925.

METAPTERUS Costa

(*Barce* Stål)

714 **M. uhleri** Bks. Ithaca, Jl–Aug, White Plains, Oct, *Bno* (McAtee&Mall–CU); Tuxedo, May (Brb); **LI:** Sea Cliff, *Bks,* Central Pk., *Eng* (McAtee&Mall–CU); Huntington (Schott); Ap.

— **M. neglectus** McAtee & Mall. White Plains, Mar–Ap, Aug, *Bno* (McAtee&Mall); **SI,** Mar, *Bno* (McAtee&Mall).

713 **M. annulipes** Stål. Indian L., Aug, *Brb* (McAtee&Mall); Ithaca, *Alex* (EPV); White Plains, Mar, Oct, *Bno* (McAtee&Mall); **SI** (Ds); **LI:** Cold Sp. Harb., *Parsh,* Cypress Hills, *Martin* (McAtee&Mall); Sea Cliff (Bks); Huntington (Schott); May–Aug.

715 **M. fraternus** Say. White Plains, Aug–Nov, *Bno* (McAtee&Mall); **LI:** Cold Sp. Harb., *Brb* (McAtee&Mall); Flatbush (Schott); Aqueduct (Brb); Jl–Nov.

SUBFAMILY SAICINAE

ONCEROTRACHELUS Stål

717 **O. acuminatus** Say. White Plains, Sep (Bno, Brb); Orangeburg, Ap, *Not* (Brb).

SUBFAMILY STENOPODINAE

PYGOLAMPIS Germar

723 **P. sericea** Stål. Ithaca, Aug (EPV–CU); **LI:** Wyandanch, *Schott,* Cedarhurst, *Schott* (Brb); Rockaway Beach, *Ds* (Brb).

724 **P. pectoralis** Say. **LI:** Yaphank (Brb); Huntington, Wyandanch, Little Neck, *Schott* (Ols, Brb); Rockaway Beach (*div.*); Long Beach, *Eng* (Sf–BM).

STENOPODA Laporte

727 **S. cinerea** Lap. (*culciformis* Fab.). White Plains, Jl (Bno); Bronx Pk., *Wat* (Brb); **SI,** Je–Jl (Ds); **LI:** Rockaway Beach (Brb); Huntington, Wading R., Melville, Wyandanch, Bay Shore, *Schott* (Ols, Bno); Coram, Yaphank (Ds); Wading R., Fire I. (Schott); Je–Nov.

SUBFAMILY REDUVIINAE

REDUVIUS Fabricius

733 **R. personatus** L. THE KISSING BUG. Mt. Whiteface, Jl (Ds); Cranberry L., Jl (Drk, Brb); Olcott, Aug (Kngt); Buffalo, Je (EPV) Lewiston, Jl, *Wat* (Brb); Batavia, Je–Jl (Kngt); Ithaca, Je–Jl (MacG–CU); Albany, Jl, *Lint* (EPV); W. Hebron, Aug, *Lg* (Ds); Catskills, Jl, *Shoe* (Ds); Nyack, *Zab* (Brb–AM); Katonah, Je (Brb–AM); White Plains, Jl (Bno); **SI,** May–Jl (Ds); **LI:** Bayside (Ds); Flatbush, Mar, Je (Schott).

SUBFAMILY PIRATINAE

MELANOLESTES Stål

745 **M. picipes** H-S. Ithaca, Je (EPV–CU); Nyack, *Zab* (Brb–AM); West Pt., Ap, *Robn* (Ds); White Plains, Ap, Oct (Bno); Van Cort. Pk., May, *Wat* (Brb); **SI,** Mar–Ap, Sep, Nov (Ds); **LI:** Cold Sp. Harb. (Brb); Cypress Hills, *Zab* (Brb); Pinelawn, *Eng* (Bno); Rockaway Beach (Ols, Schott); Huntington, Wyandanch (Schott); Ap–Sep.

746 **M. picipes** var. **abdominalis** H-S. White Plains, Ap–May, Aug–Sep (Bno); Nyack, *Zab* (Brb–AM); Ramapo, Sep (Ds); **SI**, Mar–Ap, Nov, Dec (Ds); **LI**: Cold Sp. Harb. (Brb); Wyandanch, *Schott*, Queens (Ols); Rockaway Beach (Ds, Schott); Melville (Schott); May–Oct.

SUBFAMILY ECTRICHODIINAE

RHIGINIA Stål

751 **R. cruciata** Say. **LI**: Rockaway Beach, May, Oct, *Ds, Schott* (Brb).

SUBFAMILY APIOMERINAE

APIOMERUS Laporte

764 **A. crassipes** Fab. **LI**: Half Way Hollow Hills, Wading R. (Ds); Yaphank, *Eng* (Ds, Sf); Rockaway Beach (Brb); May–Jl.

SUBFAMILY HARPACTORINAE

ZELUS Fabricius

771 **Z. exsanguis** Stål. Ithaca, May–Aug (EPV–CU); Buffalo, May–Je, Hamburg, Je–Jl, Boston, Aug, Colden, Jl (EPV); Portage, May, Geneva (EPV); Genesee Co, Je (Ds); Batavia, May–Jl (Kngt); Portageville, May, Aug (Kngt); Potter Swamp, Je (Ds); Ithaca, May–Aug (Ds, EPV–CU); E. Jewett, Aug (Ds); West Pt., Je (Ds); Ft. Montgomery, May (Brb); White Plains, Mar, Dec, sifting (Bno); Scarsdale, May (Bno); **SI**, Je–Jl (Ds); **LI**: Yaphank; Wading R., *Ols* (Brb); Huntington, Yaphank (Schott); Bay Shore (Ols); Massapequa, Wyandanch (Ds); Southold, Amagansett, Orient, Shelter I. (Ds); Je–Sep.

774 **Z. socius** Uhl. Ithaca, Je–Jl (EPV); Highland Falls, Je, *Schott* (Ols); White Plains, Jl (Bno).

775 **Z. audax** Bks. Gowanda, Aug, Ithaca, Jl (EPV); L. George, Aug, *Zab* (Brb–AM); Tuxedo, May, *Nad* (Brb); **LI**: Sea Cliff (Bks).

PSELLIOPUS Bergroth

779 **P. cinctus** Fab. Nyack, May, *Schott*, Pine I., Sep (Brb); **SI**, Sep (Ds); **LI**: Wyandanch, Jl, Pinelawn, Calverton, Massapequa, Sep, Yaphank, May (Ds); Central Pk., Aug (Ols); Hempstead, Ap (Eng–BM).

FITCHIA Stål

789 **F. aptera** Stål. Hillburn, Dec (Schott); White Plains, Ap, Je (Bno); **SI**, Nov, sifting in salt meadow, (Brb); **LI**: Coney I., Nov (Schott); Long Beach, Mar, May–Je, *Eng* (Sf–BM); Yaphank, Jl (Ols, Ds); Flushing, Jl, Wading R., May, Rockaway Beach, May (Ols).

ROCCONOTA Stål

791 **R. annulicornis** Stål. Van Cort. Pk., *Wat* (Brb); **LI**: Yaphank, Sep, *Eng* (Bno).

ARILUS Burmeister

796 **A. cristatus** L. THE WHEEL BUG. Buffalo, Sep, *Pohlman* (EPV); **SI**, Sep–Oct (Ds); **LI**: Rockaway Beach, *Eng* (Sf–BM); Wyandanch (Schott, Ds); Huntington (Schott).

ACHOLLA Stål

797 **A. multispinosa** DeG. Clifton Sps., Aug (EPV–CU); Buffalo, Jl–Oct, Lancaster, Jl, Ithaca, Jl–Oct (EPV); Batavia, Ang–Sep (Kngt); Malcolm, May, *Little* (Lint–NYS); White Plains, Ap (Bno); Nyack, *Zab* (Brb–AM); **SI**, Aug (Ds); **LI**: Flatbush, *Zab* (Brb–AM); Wyandanch, Yaphank (Ds); Huntington, *Schott* (Ols); Flushing (Ols); Hempstead (Brb); Aug–Sep.

SINEA Amyot and Serville

800 **S. diadema** Fab. Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); L. Placid, Aug–Sep, *Eng* (EPV, Bno); Saranac L., Sep, *Lg* (Ds); Cascade L., Aug (Brb); Buffalo, Jl–Sep (EPV–CU); Colden, Aug, Hamburg, Lancaster, Aug (EPV); Otto, *Comst* (Summers–CU); Ithaca, Jl–Aug (EPV–CU); L. George, Aug, *Zab* (Brb–AM); W. Hebron, Aug, *Lg* (Ds); E. Jewett, Aug, Ft. Montgomery, Jl (Ds); White Plains, Aug–Oct (Bno); Kings Bridge, Sep (Brb); **SI**, Jl–Aug (Ds); **LI**: Maspeth (Schott, Ols); Yaphank, *Eng* (Sf–BM); Cold Sp. Harb., *Butler* (Huss); Pinelawn, Bay Shore (Ols); Wading R. (Ols, Ds); Aqueduct, Half Way Hollow Hills, Flushing, Southold, Amagansett, Shelter I. (Ds); Wyandanch, *Schott* (Bno); May–Nov.

807 **S. spinipes** H-S. Ithaca, Aug (EPV); **LI**: Maspeth (Schott); Shelter I., *Plm* (Brb); Yaphank (Brb, Ds); Southold, Amagansett (Ds); Aug–Sep.

FAMILY HEBRIDAE [17]

(*Naeogeidae*)

Compiled by J. R. DE LA TORRE-BUENO

HEBRUS Curtis

810 **H. burmeisteri** L. & S. Lancaster, Jl 12, 1899 (*EPV*); White Plains, Ap–Jl (*Bno*); **SI**, May (*Ols*); **LI**: Yaphank, Sep, *Bno&Eng* (Bno).

MERRAGATA White

813¼ **M. foveata** Drk. White Plains, May 12, Aug 12, 16, 30 (Bno); **SI**, May 7, 16 (Bno); **LI**: Cold Sp. Harb., Jl 29, in enormous numbers in and among duckweed (Bno&Parsh); Yaphank, Jl 2, Sep 25 (Bno).

813½ **M. brunnea** Drk. White Plains, May–Aug (Bno).

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[17] According to the footnote on page 272 in Van Duzee's catalog, this family may more properly follow the Veliidae.

FAMILY **MESOVELIIDAE**

Compiled by J. R. DE LA TORRE-BUENO

MESOVELIA Mulsant and Rey

814 **M. bisignata** Uhl. Cranberry L. (O&D); Ithaca, Jl–Aug (CU); Squaw I., Niagara R., Sep (EPV); Buffalo, Sep (*EPV*); Carmel, Aug (Bno); White Plains, common and abundant from late spring to fall (Bno); Kensico L., May (Bno); Van Cort. Pk., Aug–Sep (Bno); **SI**, Aug (EPV, Bno); **LI**: Flushing, Jl (Ols); Yaphank, Jl–Sep (Bno, Ols).

FAMILY **NABIDAE**

Compiled by J. R. DE LA TORRE-BUENO

SUBFAMILY **PROSTEMMINAE**

PAGASA Stål

816 **P. fusca** Stein. Cascade L., Aug (Brb); Cranberry L. (Drk); Hamburg, Sep (EPV); Lancaster, Jl, *EPV* (Harris); Stamford, Aug (EPV); White Plains, Jl–Oct (Bno, Ols); NYC, Nov (Brb); **LI**: Cold Sp. Harb. (Brb); Rockaway Beach (Ols); Flatbush, *Zab* (Brb–AM).

NABIS Latreille

(*Reduviolus* Kirby)

818 **N. subcoleoptratus** Kby. Spread all over the State (Brb). Cascade, Aug (Brb); Cranberry (Drk); Axton, Je, Wilmington, Jl (Ds); N. Elba, Oct (Ds); Rochester, Jl, *Wendt* (Ols); Colden, Jl (EPV–NYS); Buffalo, Jl–Sep (EPV); Clarence, Sep (Harris); Batavia, Je–Aug (Kngt); Gowanda, Aug, Otto, Jl (EPV); Ithaca, Jl–Aug (EPV–CU); E. Jewett, Aug (Ds); W. Hebron, Aug–Sep, *M&H, Lg* (Ds, EPV–CU); Greene Co, Aug (Harris); Saugerties, Aug (Brb); Allaben, Aug, *Pears* (Ols); Callicoon, Jl (Ds); Debruce, Aug (Brb–AM); Nyack, *Zab* (Brb–AM); Ramapo, Jl (Ds); Pine I., Je (Sf–BM); White Plains, May–Aug (Bno); **SI**, Sep (Ds); **LI**, *Eng* (Sf–BM).

820 **N. sordidus** Reut. L. Placid, Sep, *Eng* (Bno); Oneida L., Aug, *Drk* (Harris); West Pt., Jl, Mosholu, Nov, Suffern, Ap, Grand View, Nyack, Je (Brb); White Plains, Oct, sifting (Huss); **SI**, Aug, *Ds* (Heid); **LI**: Cold Sp. Harb. (Brb); Rockaway Beach, *Schott* (Brb); Hempstead (Eng); Central Pk., *Eng* (Bno).

823 **N. annulatus** Reut. N. Elba, Oct (Ds); Lancaster, Aug, Buffalo, Aug, *EPV* (Harris); Batavia, Jl–Aug, *Kngt*, Ithaca, Aug (Harris); Saugerties, Jl (Brb); **SI**, Aug (Ds); **LI**: Cold Sp. Harb. (Brb); Amagansett, *Sf* (Bno); Queens, *Sf* (Bno); Flatbush, Aug–Sep, *Zab* (Brb–AM); Aug–Sep.

825 **N. propinquus** Reut. Cranberry L., Jl, *OsbornH* (Harr); L. Placid, Sep, Wilmington Notch, Sep (EPV); Grand I., Sep (EPV); Buffalo, Jl (EPV).

826 **N. limbatus** Dahlb. Cranberry L., Jl–Sep, *OsbornH* (Harr, Drk); Cascade L., Aug (Brb); L. Placid, Aug (EPV).

829 **N. ferus** L. Throughout the State (Brb). L. Placid, Aug (EPV); Cranberry L., Jl–Sep (Drk); Cascade L., Aug (Brb); Buffalo, May–Oct, Hamburg, May–Jl (EPV); Batavia, Je–Sep, *Kngt* (Harr); Colden, Jl, Lancaster, May, Aug, Oct (EPV); Otto, Jl (MacG–CU); Ithaca, Mar, May, Oct, Coy Glen, May (Morr); McLean, Ap, *Kngt* (Morr); W. Hebron, Aug, *Lg* (Ds); Saugerties, Aug, Pine I., Sep (Brb); Ft. Montgomery, Jl (Ds); Crugers, Oct (Brb–AM); **SI**, Je–Nov (Ds); **LI**: Long Beach, Central Pk., *Eng* (Sf–BM); Yaphank, *Eng* (Ds, Sf–BM); Brooklyn, Mineola, *Schott* (Kngt, Bno); Cold Sp. Harb., *Butler* (Huss, Brb); Flatbush, *Zab* (Brb); Aqueduct (Brb, Ds); Ap–Oct.

830 **N. roseipennis** Reut. All over the State (Brb). Cranberry L., Jl–Sep (Drk); Cascade L., Aug (Brb); L. Placid, Sep (EPV); Buffalo, May–Sep, Hamburg, Ap–Jl, Gowanda, Aug (EPV); Lancaster, May–Je, Aug, Portage, May, *EPV* (Harr); Grand I., Sep, Concord, May (Harr); Ithaca, Je–Aug (Summers–CU); Saugerties, Aug (Brb); White Plains, Dec, sifting (Bno); Armonk, Je (Bno); Kings Bridge, Sep (Brb); **SI**, Je–Jl, *Ds* (Heid); **LI**: Huntington, Nov, *Schott* (Brb); Flatbush, Jl–Oct, *Zab* (Brb–AM); Cold Sp. Harb., Jl–Aug (Huss, Brb, etc.); Jl–Oct.

831 **N. rufusculus** Reut. Throughout the State (Brb). Cascade L., Aug (Brb); Cranberry L., Je–Sep (Drk); L. Placid, Aug–Sep (EPV); Madison Barracks, Grand I., Sep (Kngt); Rochester, Aug (Summers); Colden, Jl–Aug, Buffalo, May–Sep, Hamburg, Jl, Gowanda, Aug, Salamanca, Jl (EPV); Portage, May, Lancaster, Sep (Harr); Lime L., Aug (Brb); Pine I., Oct (Brb); Tuxedo, May (Brb); White Plains, Dec, sifting (Bno); **LI**: Flatbush, *Zab* (AM); Rosedale, *Schott* (Brb–AM).

832 **N. inscriptus** Kby. Axton, Je, *M&H* (EPV–CU); Buffalo, Aug, Hamburg, May, Lancaster, Aug (EPV).

METATROPIPHORUS Reuter

834 **M. belfragii** Reut. Saugerties, Jl (Brb); **LI**: Yaphank, Jl (Ds). Rare.

CARTHASIS Champion

835 **C. decoratus** Uhl. White Plains, May (Bno); **LI**: Massapequa, Ap, *Ols* (Bno). Rare.

FAMILY CIMICIDAE

CIMEX Linnaeus

836 **C. lectularius** L. THE BEDBUG. Generally distributed throughout the State (Brb).

837 **C. pilosellus** Horv. Lewis Co (Horv–US). Host, *Vesperugo noctivagus.*

OECIACUS Stål

838 **O. vicarius** Horv. **LI**: Cold Sp. Harb., Jl–Aug, *Butler* (Huss), masses of eggs, hundreds of nymphs in first and second stages, and one or two adults, in a chimney swift's nest (Bno).

FAMILY ANTHOCORIDAE

SUBFAMILY LYCTOCORINAE

LYCTOCORIS Hahn

840 **L. campestris** Fab. Lancaster (EPV); Batavia, Aug, *Kngt* (Bno); Ithaca, Sep (Morr); **LI:** Wyandanch, Je, *Schott* (Bno).

843 **L. stalii** Reut. Hamburg, Aug (EPV); Lancaster, Jan, *Palmer* (EPV); Ithaca, Jl (EPV).

LASIOCHILUS Reuter

845 **L. fusculus** Reut. Hamburg, Oct (EPV).

XYLOCORIS Dufour

846 **X. galactinus** Fieb. L. Placid, Sep (EPV).

847 **X. sordidus** Reut. White Plains, Aug–Sep, Hartsdale, May (Bno); **SI,** May, *Eng* (Bno); **LI:** Wyandanch, Montauk, *Ds* (Ols); Jamaica, *Nic* (Bno–BM).

847a **X. sordidus** var. **binotatus** Reut. Salamanca, Jl (EPV).

851 **X. cursitans** Fall. Buffalo, Oct, Hamburg, Je–Oct, Colden, May, Gowanda, Aug (EPV); **SI,** Ap (Ds).

ASTHENIDEA Reuter

852 **A. temnostethoides** Reut. Cranberry L., Aug–Sep (Drk).

SUBFAMILY ANTHOCORINAE

ANTHOCORIS Fallén

860 **A. borealis** Dall. Cranberry L., Jl (Drk); Fulton Co, *Alex* (EPV); Lancaster, Stamford, Aug (EPV); Ft. Montgomery, Jl, *Schott* (Brb); Armonk, W. Nyack, Aug (Bno).

861 **A. musculus** Say. Keene Val., Sep, *Eng* (Bno); Axton, Je, *M&H* (EPV–CU); L. Placid, Aug, Buffalo, Lime L., Aug (EPV); Otto, Jl (Uhl).

TETRAPHLEPS Fieber

T. americana Parsh. Top of Mt. Whiteface, Jl, *Ds* (Brb).

T. osborni Drk. Cranberry L., Jl–Sep (Drk).

T. uniformis Parsh. Cranberry L. (Drk).

MACROTRACHELIELLA Champion

M. nigra Parsh. **SI,** Aug, *Ds* (Brb).

ORIUS Wolff

(*Triphleps* Fieber)

864 **O. insidiosus** Say. Cascade L., Aug (Brb); Cranberry L. (Drk); Keene Val., Aug, *Not* (Brb); Axton, Je (M&H); Mt. Whiteface, Aug, Buffalo, Je–Sep, Honeoye Falls, Rochester Jct., Lancaster, Jl (EPV);

Batavia, Je–Sep (Kngt); Colden, Jl (EPV); Jamestown, Aug, Ithaca, Je (EPV); White Plains, May–Sep, Scarsdale, Aug, Rye, Aug (Bno); **SI**, Oct–Nov, *Ds* (Heid); **LI**: Sea Cliff, Je, *Atkinson* (EPV–CU); Little Neck, Wyandanch, *Schott* (Brb); Cold Sp. Harb. (Brb); Half Way Hollow Hills (Ds); Amagansett (Sf–BM); Flatbush, *Eng* (Bno).

865 **O. insidiosus** var. **tristicolor** White. Aurora, Jl (Brb–AM); Ithaca, Jl–Aug (EPV–CU).

SUBFAMILY DUFOURIELLINAE

DUFOURIELLUS Kirkaldy

871 **D. ater** Duf. Hamburg, Oct, Buffalo, Jl (EPV).

FAMILY MIRIDAE

Compiled by HARRY H. KNIGHT

SUBFAMILY PHYLINAE

CAMPYLOMMA Reuter

1267 **C. verbasci** (Meyer). Batavia, Je–Aug (*Kngt*); Hilton, Je (*Kngt*); Buffalo, Je (*EPV*); E. Aurora, Aug (*EPV*); Hamburg, Je–Jl (*EPV*); Hamburg, Je–Jl (*EPV*); Nassau, Je (*EPV*); White Plains, Jl, *Bno* (Kngt); **LI**: Huntington, Jl, *Schott* (Kngt). *Verbascum* spp., potato, and occasionally apple; is sometimes attracted to colonies of aphids, where it feeds on honeydew.

CHLAMYDATUS Curtis

1260 **C. associatus** (Uhl). Batavia, Je–Sep (*Kngt*); Buffalo, Je–Sep (*EPV*); Honeoye Falls, Je (*Kngt*); McLean, Jl (*Kngt*); White Plains, Sep, *Bno* (Kngt); Mosholu, *Bno* (Heid). Ragweed (*Ambrosia* spp.).

1259 **C. suavis** (Reut.). **SI**, Jl, *Ds* (Kngt).

1258 **C. pulicarius** (Fall.). L. Placid, Aug (EPV); Cranberry L., Je–Jl, Wanakena, Jl–Aug, *Drk* (Kngt); Four Mile, Jl (*Kngt*).

MICROPHYLELLUS Reuter

M. elongatus Kngt. Batavia, Je–Jl (*Kngt*), type locality. *Acer saccharum.*

M. longirostris Kngt. Ithaca, Jl (*Kngt*), type locality; White Plains, Jl, *Bno* (Kngt). Hazelnut (*Corylus americana*).

M. maculipennis Kngt. Batavia, Je (*Kngt*); Conesus L., Je (*Kngt*). *Quercus alba.*

1225 **M. modestus** Reut. Batavia, Je–Jl (*Kngt*); Hamburg, Jl (EPV); Gowanda, Je (EPV); Wyoming, Je (*Kngt*); Conesus L., Jl (*Kngt*); Ithaca, Je (*Kngt*); Freeville, Jl (Kngt–CU); McLean, Jl (*Kngt*); Grand View, Je, *Brb* (Kngt). Elm (Ulmus) and *Quercus alba*; observed to be predacious on eggs of the elm leaf–beetle (*Galerucella luteola*) at Ithaca, Je, 1911.

M. nigricornis Kngt. Batavia, Je (*Kngt*); Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*), type locality. *Aster macrophyllus.*

M. tsugae Kngt. Ithaca, Jl (*Kngt*); McLean Bogs, Jl (*Kngt*), type locality; Taughannock, Jl (Kngt). Hemlock (*Tsuga canadensis*).

PLAGIOGNATHUS Fieber

1237 **P. albatus** VanD. Batavia, Jl (*Kngt*); Hamburg, Jl (*EPV*), type locality; Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Ithaca, Je (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); **LI:** Gardiners I., Jl, *Schott* (Kngt). Sycamore (*Platanus occidentalis*).

P. albatus var. **vittiscutis** Kngt. Ithaca, Je (*Kngt*), type locality. Butternut (*Juglans cinerea*).

P. albonotatus Kngt. Batavia, Jl–Aug (*Kngt*); McLean, Jl (*Kngt*), type locality. Meadowsweet (*Spiraea salicifolia*).

P. albonotatus compar Kngt. Batavia, Jl–Aug (*Kngt*), type locality; McLean, Jl (Kngt).

P. alboradialis Kngt. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); Batavia, Je (*Kngt*), type locality; Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*).

1240 **P. annulatus** Uhl. Batavia, Jl–Aug (*Kngt*); Four Mile, Jl (*Kngt*); Ithaca, Jl (Kngt); **LI:** Kissena Pk., Je, *Ols* (Kngt); North Beach, Jl, *Ols* (Kngt).

P. annulatus var. **cuneatus** Kngt. Batavia, Jl (*Kngt*); Ithaca, Jl (*Kngt*), type locality. *Aster* sp.

P. annulatus var. **nigrofemoratus** Kngt. Ithaca, Jl (*Kngt*), type locality.

1234 **P. blatchleyi** Reut. Batavia, Aug (*Kngt*); Hamburg, Je–Jl (*EPV*); Elma, Jl (*EPV*); Gowanda, Aug (*EPV*); Ithaca, Jl (*Kngt*).

P. blatchleyi var. **nubilus** Kngt. Ithaca, Jl (*Kngt*), type locality.

P. brevirostris Kngt. Ithaca, Jl (*Kngt*), type locality.

P. caryae Kngt. Batavia, Je (*Kngt*); Portageville, Je (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality. Hickory (*Carya* spp.).

P. chrysanthemi Wolff. Cranberry L., Wanakena, Jl, *Drk* (Kngt); Ithaca, Je–Jl (*Kngt*); McLean, Jl (*Kngt*–CU). *Chrysanthemum leucanthemum.*

P. cornicola Kngt. Batavia, Je–Jl (*Kngt*), type locality; Ithaca, Je (*Kngt*); White Plains, Je, *Bno* (Kngt). *Cornus* spp.

P. davisi Kngt. Pine I., Je, *Ds* (Kngt), type locality.

1230 **P. delicatus** Uhl. Batavia, Je (*Kngt*). Honey locust (*Gleditsia triacanthos*).

P. dispar Kngt. Batavia, Je–Jl (*Kngt*), type locality; Conesus L., Jl (*Kngt*); Hartsdale, Jl, *Bno* (Kngt). Hickory (*Carya* sp.).

P. flavicornis Kngt. Batavia, Je–Jl (*Kngt*), type locality.

P. flavoscutellatus Kngt. Ithaca, Je, *Buys* (Kngt); Batavia, Aug (*Kngt*), type locality. *Salix longifolia.*

P. ilicis Kngt. Ringwood, Jl (*Kngt*), type locality. *Ilex verticillata.*

P. intrusus Kngt. Cranberry L., Je, *Drk* (*Kngt*); McLean, Jl (Kngt).

P. laricicola Kngt. Cranberry L., Jl, *Drk* (Kngt); Ithaca, Je–Jl (Kngt), type locality; White Plains, Jl, *Bno* (Kngt). *Larix laricina.*

P. nigronitens Kngt. Batavia, Jl–Aug (*Kngt*), type locality; Wyoming Co, Jl (*Kngt*); Ithaca, Jl (*Kngt*); White Plains, Je–Jl, *Bno* (Kngt).

1239 **P. obscurus** Uhl. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Jl–Aug, *Drk* (Kngt); Cascade L., Aug, *Brb* (Kngt); Batavia, Jl–Aug (Kngt); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*). Occurs on herbaceous weeds.

P. obscurus var. **albocuneatus** Kngt. Batavia, Jl–Aug (*Kngt*), type locality; Portageville, Je (*Kngt*); Four Mile, Jl (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl, *Bno* (Kngt); White Plains, Jl, *Bno* (Kngt). **LI:** Babylon, Jl, *Parsh* (Kngt); Cold Sp. Harb., Jl, *Parsh,* Aug, *Bno* (Kngt).

1238 **P. obscurus** var. **fraternus** Uhl. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); Cascade L., Aug, *Brb* (Kngt); Batavia, Je–Sep (Kngt); Portageville, Aug (*Kngt*); Ithaca, Jl–Aug (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (Kngt); **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt).

1241 **P. politus** Uhl. Cranberry L., Jl, Wanakena, Aug, *Drk* (Kngt); Batavia, Je–Oct (*Kngt*); Hamburg, Jl (*EPV*); Elma, Aug (*EPV*); Gowanda, Aug (*EPV*); Four Mile, Jl (*Kngt*); Ithaca, Je–Oct (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); **SI,** Jl, *Ds* (Kngt); **LI:** Cold Sp. Harb., Aug, *Brb* (Kngt); Mamaroneck, Sep, *Bno* (Kngt). Ragweed (*Ambrosia* spp.).

P. politus var. **flaveolus** Kngt. Batavia, Aug–Oct (Kngt), type locality; Ft. Montgomery, Jl, *Schott* (Kngt); White Plains, Sep, *Bno* (Kngt); **SI:** Arrochar, Sep, *Ds* (Kngt); **LI:** Cold Sp. Harb., Aug, *Brb* (Kngt); Forest Hills, Sep, *Ols* (Kngt); Orient, Sep, *Schott* (Kngt). Ragweed (*Ambrosia* spp.).

P. politus var. **pallidicornis** Kngt. Mt. Whiteface, Aug (*Kngt*); Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); Batavia, Je–Aug (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality; McLean, Jl (*Kngt*); Hartsdale, Je, *Bno* (Kngt).

P. punctatipes Kngt. Batavia, Jl (*Kngt*); Ithaca, Je (*Kngt*), type locality. Collected on flowers of an ornamental Spiraea.

P. repetitus Kngt. Mt. Whiteface, Aug (Kngt), type locality; McLean Bogs, Jl, *Buys* (Kngt); Conifer, Jl, *Drk* (Kngt); Wanakena, Jl–Aug, *Drk* (Kngt).

P. repletus Kngt. Batavia, Je (Kngt), type locality.

P. repletus var. **apicatus** Kngt. Conesus L., Jl (*Kngt*), type locality.

P. suffuscipennis Kngt. Rochester Jct., Je, *Leon* (Kngt), type locality; White Plains, Je, *Bno* (Kngt). Spruce (*Picea* spp.).

PSALLUS Fieber

P. alnicenatus Kngt. Cranberry L., Jl, *Drk* (Kngt); Conifer, Jl, *Osb* (Kngt); Ithaca, Jl (*Kngt*); McLean Bogs, Jl (*Kngt*), type locality. Alder (*Alnus incanus*).

P. alnicola Douglas & Scott. Ithaca, Jl (*Kngt*); McLean Bogs, Jl (*Kngt*). Alder (*Alnus* sp.).

1243 **P. ancorifer** Fieb. White Plains, Jl, *Bno* (Kngt); **LI:** Cold Sp. Harb., Jl, *Brb* (Kngt).

P. drakei Kngt. Cranberry L., Je, *Drk* (Kngt), type locality, Je–Jl, *Htly* (Kngt). Willow (*Salix* sp.).

P. morrisoni Kngt. Cranberry L., Aug, *Drk* (Kngt). **LI:** Cold Sp. Harb., Aug, *Bno* (Kngt). Collected on *Myrica* sp.

P. parshleyi Kngt. Cranberry L., Jl, *Htly* (Kngt).

P. piceicola Kngt. Ithaca, Jl, *Bno* (Kngt); White Plains, Je–Jl, *Bno* (Kngt), type locality. **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt). Spruce (*Picea* sp.).

P. strobicola Kngt. Cranberry L., Jl, *Drk* (Kngt); Portageville, Je (*Kngt*); Ithaca, Je–Jl (Kngt); Taughannock, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt). *Pinus strobus.*

LEPIDOPSALLUS Knight

L. minusculus Kngt. White Plains, Jl, *Bno* (Kngt), type locality.

1088 **L. rubidus** Uhl. Batavia, Jl–Aug (*Kngt*); Honeoye Falls, Aug (*Kngt*); Ithaca, Jl (*Kngt*). *Salix* sp.

L. rubidus var. **atricolor** Kngt. Cranberry L., Jl–Aug, *Drk* (Kngt), Aug, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Jl–Aug (*Kngt*), type locality. *Salix* sp.

CRIOCORIS Fieber

1223 **C. saliens** (Reut.). Cranberry L., Jl, *Drk* (Kngt); Batavia, Aug (*Kngt*); Buffalo, Je (EPV).

MICROSYNAMMA Fieber

M. bohemanni (Fall.). Honeoye Falls, Je, *Leon* (Kngt); Rochester Jct., Je, *Leon* (Kngt). *Salix* spp.

RHINOCAPSUS Uhler

1228 **R. vanduzeii** Uhl. Mt. Whiteface, Aug (*Kngt*); Ausable R., Aug (*EPV*); Cranberry L., Jl–Aug, *div.* (Kngt); Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je–Aug (Kngt); Buffalo, Lancaster, Colden, Je–Jl (EPV); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Portageville, Je (*Kngt*). Raspberry (*Rubus* spp.).

ATRACTOTOMUS Fieber

A. magnicornis (Fall.). Ithaca, Jl (*Kngt*); White Plains, Je–Jl, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt). *Pinus sylvestris* and Picea.

A. magnicornis var. **buenoi** Kngt. White Plains, Je, *Bno* (Kngt), type locality. Hemlock (*Tsuga canadensis*).

REUTEROSCOPUS Kirkaldy

1213 **R. ornatus** (Reut.). Ithaca, Jl (*Kngt*); Buffalo, Jl–Aug (*EPV*); White Plains, Jl–Oct, *Bno* (Kngt); Mosholu (Heid); Yorktown Hgts., Sep, *Ols* (Kngt); **LI**: Cold Sp. Harb., Jl, *Bno* (Kngt); Pinelawn, Sep, *Ds* (Kngt); Woodhaven, Jl (Kngt–Brooklyn Museum). Ragweed (*Ambrosia* spp.).

MACROTYLUS Fieber

1200 **M. sexguttatus** (Prov.). Cranberry L., Jl–Aug, *Drk* (Kngt); Batavia, Je–Jl (*Kngt*); Four Mile, Jl (*Kngt*). *Aster undulatus, A. acuminatus.*

LOPUS Hahn

1207 **L. decolor** (Fall.). Cranberry L., Aug, *Drk* (Kngt); Elka Pk., Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (*EPV*); Rochester Jct., Jl, *Leon* (Kngt); Ithaca, Jl, *Bno* (Kngt); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Mosholu (Heid). **LI**: Huntington, Jl, *Schott* (Kngt); Orient, Jl, *Ds* (Kngt). *Juncus dudleyi* at McLean.

ORECTODERUS Uhler

1101 **O. obliquus** Uhl. **LI:** Bay Shore, Jl, *Ols*; Half Way Hollow Hills, Jl, *Ds* (Kngt).

O. obliquus var. **ferrugineous** Kngt. **LI:** Bay Shore, Jl, *Ols* (Kngt), type locality.

TELEORHINUS Uhler

T. tephrosicola Kngt. **LI:** Yaphank, Jl, *Ds* (Kngt), type locality.

SUBFAMILY DICYPHINAE

DICYPHUS Uhler

1108 **D. agilis** (Uhl.). L. Placid, Aug (*EPV*); Cranberry L., Jl–Aug, *Htly* (Kngt); Wanakena, Jl–Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je–Aug (*Kngt*); Hamburg, Je–Jl (*EPV*); Lancaster, Jl–Aug (*EPV*); Gowanda, Aug (*EPV*); Portageville, Je (*Kngt*); Four Mile, Jl (*Kngt*); Conesus L., Je (Kngt); Ithaca, Je–Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt). *Rubus odoratus*, and possibly other species.

D. discrepans Kngt. Cranberry L., Jl, *Drk* (Kngt), type locality (*vestitus*, Drk '22), Je, *Htly* (Kngt).

1109 **D. famelicus** (Uhl.). Axton, Je, *MacG* (EPV); Cranberry L., Jl–Aug, *Drk* (Kngt); Batavia, Je–Aug (*Kngt*); Buffalo, May–Aug (*EPV*); Labrador L., May, *Buys* (Kngt); Colden, Jl (*EPV*); Hamburg, Je–Aug (EPV); Gowanda, Aug (*EPV*); Chautauqua, Je (*EPV*); Otto, Jl, *Comst* (Kngt); Cattaraugus Co, Je (*Kngt*); Portageville, Je–Aug (*Kngt*); Honeoye Falls, Je (*Kngt*); Ft. Montgomery, Sep, *Schott* (Kngt); Bear Mt., Sep, *Schott* (Kngt); White Plains, Sep, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt). *Rubus odoratus.*

MACROLOPHUS Fieber

1116 **M. separatus** (Uhl.). Cranberry L., Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Niagara Falls, Aug (*EPV*); Hamburg, Jl (*EPV*).

HYALIODES Reuter

1106 **H. vitripennis** (Say). Cranberry L., Aug, *Htly* (Kngt); Wanakena (Drk '22); Saranac L., Aug (*EPV*); Batavia, Jl–Aug (*Kngt*); Niagara Falls, Aug (*EPV*); Buffalo, Sep (*EPV*); Colden, Jl (*EPV*); Elma, Sep (*EPV*); Boston, Aug (*EPV*); Gowanda, Aug (EPV); Salamanca, Jl (*EPV*); Ithaca, Jl, *Kngt* (EPV); White Plains, Jl–Aug, *Bno* (Kngt); Mosholu (Heid); W. Nyack, Aug, *Bno* (Kngt); Bronxville, Jl (*Wood*); **SI** (Heid); **LI:** Yaphank, Jl, *Ds* (Kngt); Wading R., Aug, *Ds* (Kngt). Occurs on several plants, but is frequent on Vitis; predacious on plant lice.

1106a **H. vitripennis** var. **discoidalis** Reut. Batavia, Jl–Aug (*Kngt*); Buffalo, Aug (*EPV*); Johnstown, Aug, *Alex* (EPV); Hamburg, Aug (*EPV*). **LI:** High Hill, Aug (*Bno*); W. Nyack, Je, *Ols* (Kngt).

SUBFAMILY BRYOCORINAE

MONALOCORIS Dahlbom

1082 **M. filicis** (L.). L. Placid, Aug (EPV); Cranberry L., Jl–Aug, *Drk*, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Mt. Whiteface, Aug (*Kngt*); Niagara Falls, Sep, *MCV* (EPV); Buffalo, Jl–Sep (*EPV*); Hamburg, Jl (*EPV*); Lancaster, Aug (*EPV*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Ft. Montgomery, Sep, *Schott* (Kngt). **SI:** (Heid); Tottenville, Aug, *Ds* (Kngt); **LI:** Cold Sp. Harb., Jl, *Brb* (Kngt), Aug, *Bno* (Kngt); Yaphank, Jl–Sep, *Ds* (Kngt).

PYCNODERES Guérin

1079 **P. dilatatus** Reut. W. Nyack, Aug, Ols (*Kngt*).

SIXEONOTUS Reuter

1074 **S. insignis** Reut. NY (Reut); Fulton Co, *Alex* (EPV); Hamburg, Je (*EPV*); Gowanda, Aug (*EPV*).

SYSINAS Distant

1083 **S. linearis** Distant. **LI:** Sea Cliff (Bks, Kngt).

SUBFAMILY CYLAPINAE

CYLAPUS Say

1090 **C. tenuicornis** Say. Niagara Falls, Jl (*EPV*); Gowanda, Aug (*EPV*); Ithaca, Jl, *Plunk* (Kngt). **SI:** Richmond, Aug, *Ds* (Kngt); **LI:** Queens, Jl, *Ds* (Kngt); Sea Cliff, Aug (*Bks*).

FULVIUS Stål

1091 **F. brunneus** (Prov.). Catskill, *Brb* (EPV); Ithaca, Mar (Kngt–CU); Saugerties, Aug, *Ds* (Kngt); **LI:** Wyandanch, Aug, *Schott* (Kngt).

SUBFAMILY CLIVINEMINAE

LARGIDEA Van Duzee

1089¾ **L. davisi** Kngt. Bear Mt., Sep, *Schott* (Kngt). **LI:** Promised Land, Sep, *Ds* (Kngt); Yaphank, Sep, *Ds* (Kngt). Occurs on Pinus.

SUBFAMILY DERAEOCORINAE

EUSTICTUS Reuter

1054 **E. grossus** (Uhl.). **SI,** Jl, *Ds* (Kngt); **LI:** Yaphank, Sep, *Ds* (Kngt).

E. necopinus Kngt. White Plains, Jl, *Bno* (Kngt), type locality. Occurs on aspen.

1050 **E. venatorius** VanD. Hamburg, Aug (*EPV*), type locality. **LI:** Central Pk., Jl–Aug, *Ds* (Kngt).

EURYCHILOPTERELLA Reuter

1056 **E. luridula** Reut. Holley, Jl, *Hawl* (Kngt); Batavia, Jl (*Kngt*); Buffalo, Jl, *EPV* (Reut), type locality; White Plains, Je–Jl, *Bno* (Kngt). Occurs on apple trees.

DERAEOCORIS Kirschbaum

(Subgenus **CAMPTOBROCHIS**)

1063 **D. histrio** Reut. Ithaca, Aug (Kngt–CU). **LI:** Cold Sp. Harb., Aug, *Parsh* (Kngt). Breeds on Polygonum.

1058 **D. nebulosus** Uhl. Axton, Je, *MacG* (EPV); L. Placid (EPV); Cranberry L., Jl, *Osb* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je–Sep (*Kngt*); Niagara Falls, Je, *EPV* (Kngt); Buffalo, Jl–Aug (EPV); Salamanca, Jl (*EPV*); Ithaca, Feb, under bark of log, Ap, under sycamore bark, Jl, Oct (*Kngt*); McLean, Jl (Kngt); West Pt., Aug, *Brb* (Kngt); Schenectady, Aug, *Heid* (Kngt); L. Mahopac, Aug, *Bno* (Kngt); Oliverea, Sep, *Ds* (Kngt); White Plains, Je–Jl, *Bno* (Kngt); Mosholu (Heid), Nov, by sifting, *Brb* (Kngt). **SI,** Jl–Aug, *Ols* (Kngt), Jl, *Ds* (Kngt). **LI:** Brooklyn, Oct, *Ds* (Kngt); Maspeth, Aug, *Ols* (Kngt); Rockaway Beach, May, *Ds* (Kngt), Aug, *Ols* (Kngt); Cold Sp. Harb., Jl, *Brb* (Kngt); Port Washington, Sep, *Ols* (Kngt); Yaphank, Sep, *Ds* (Kngt). Occurs on white oaks; predacious on *Phylloxera rileyi* Rly.

D. nubilus Kngt. Wanakena, Aug, *Drk* (Kngt); Batavia, Jl (*Kngt*); Portageville, Je (*Kngt*); Taughannock, Jl (*Kngt*); Ithaca, Feb, under bark of log, May–Jl (Kngt), type locality; White Plains, Ap–Aug, *Bno* (Kngt); Saugerties, Jl, *Brb* (Kngt). Breeds on *Pinus resinosa.*

D. poecilus McAtee. Ithaca, Jl (*Kngt*); McLean, Jl, Sep, *Sib* (Kngt). Occurs on *Alnus rugosa*; probably predacious.

(Subgenus **DERAEOCORIS**)

D. albigulus Kngt. Ithaca, Je (Kngt), type locality; Bear Mt., Je–Jl, *Schott* (Kngt); Hartsdale, Jl, *Bno* (Kngt). Breeds on *Pinus sylvestris.*

D. alnicola Kngt. Batavia, Je–Jl (*Kngt*); Portageville, Je (Kngt); McLean, Jl (*Kngt*), type locality; White Plains, Je–Jl, *Bno* (Kngt). Breeds on Alnus; probably predacious.

D. aphidiphagus Kngt. Cranberry L., Je, *Drk* (Kngt); Batavia, Je–Jl (*Kngt*); Lancaster, Jl, *EPV* (Kngt); Portageville, Jl (*Kngt*); Conesus L., Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality; McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt). Occurs on Ulmus and is predacious on *Eriosoma americanum* Rly.

D. betulae Kngt. Cranberry L., Je–Jl, *Drk* (Kngt), Jl–Aug, *Htly* (Kngt); Long L., *Ds* (Kngt); Mt. Whiteface, Jl, *Ds* (Kngt); Four Mile, Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality; Ringwood, Je–Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je–Jl, *Bno* (Kngt); Ft. Montgomery, Je, *Schott* (Kngt); Hartsdale, Jl, *Bno* (Kngt); **SI,** Je–Jl, *Ds* (Kngt). **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt). Breeds on beech (*Betula lutea*); is predacious on aphids.

D. borealis (VanD.). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl, *Drk* (Kngt); Plattsburg, Jl, *Ds* (Kngt); Batavia, Je–Jl (*Kngt*); Portageville, Je (Kngt); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (Kngt); Oliverea, Jl, *Ds, Shoe* (Kngt); **LI:** Rockaway Beach, Je, *Ols* (Kngt).

D. davisi Kngt. **SI,** Je, *Ds* (Kngt), type locality.

D. fasciolus Kngt. Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je–Aug (*Kngt*); Ithaca (*Kngt*), type locality, Je–Jl, *Wellhouse* (Kngt); White Plains, Jl, *Bno* (Kngt). Occurs on Crataegus, apple, and occasionally other plants; is predacious on aphids.

D. fasciolus var. **castus** Kngt. Cranberry L., Aug, *Htly* (Kngt); Batavia, Je–Aug (*Kngt*); Ithaca (*Kngt*); **SI,** Je–Jl, *Ds* (Kngt). Predacious on *Phyllaphis fagi* L.

1070 **D. grandis** (Uhl.). Batavia, Jl (*Kngt*); Conesus L., Jl (Kngt); Ithaca, Je (Kngt); White Plains, Je–Jl, *Bno* (Kngt); W. Hebron, Aug, *Bno* (Kngt); **LI:** Rockaway Beach, Jl, collected in wash-up, *Ols* (Kngt). Breeds on hickory (*Carya* spp.).

D. laricicola Kngt. Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je–Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality. Breeds on larch (*Larix laricina*).

D. nitenatus Kngt. Ithaca, Jl (*Kngt*); Lancaster, Jl, *EPV* (Kngt); White Plains, Jl–Aug, *Bno* (Kngt); **SI,** Jl–Aug, *Ds* (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt); Maspeth, Jl–Aug, *Ols* (Kngt); Kings Pk., Jl, *Bell* (Kngt); Roslyn, Aug, *Ols* (Kngt); Aqueduct, Jl, *Ds* (Kngt). Predacious on *Eriosoma lanigerum.*

D. pinicola Kngt. Cranberry L., Jl, *Drk* (Kngt); Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Ithaca, Je–Jl (*Kngt*), type locality; Ringwood, Je–Jl (*Kngt*); White Plains, May, *Bno* (Kngt); **LI:** Wyandanch, Jl, *Ds* (Kngt). Occurs on *Pinus strobus*; predacious on *Chermes pinicorticis* Fh.

D. quercicola Kngt. Batavia, Jl (*Kngt*); Four Mile, Jl (*Kngt*); Portageville, Je (*Kngt*); Conesus L., Jl (*Kngt*), type locality; Ithaca, Je–Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); Pine I., Je, *Ds* (Kngt); Hartsdale, Jl, *Bno* (Kngt); **SI:** Roseville, Jl, *Ds* (Kngt); Richmond, Je, *Ds* (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt); Massapequa, Jl, *Ds* (Kngt); Yaphank, Jl, *Ols* (Kngt). Breeds on *Quercus alba.*

D. quercicola var. **pallens** Kngt. Batavia, Jl–Aug (*Kngt*), type locality; Buffalo, Jl, *EPV* (Kngt). Breeds on *Quercus macrocarpa.*

1067 **D. sayi** (Reut.). Ithaca, Je (*Kngt*). Occurs on Quercus.

1071 **D. ruber** (L.). White Plains, Je, *Bno* (*Kngt*); **SI,** Jl, *Ds* (*Kngt*); **LI:** Brooklyn, Jl, *Ds* (Kngt); Maspeth, Jl, *Ols* (Kngt). Predacious on aphids.

D. ruber var. **bicolor** Kngt. **LI:** Brooklyn, Jl, *Ds* (Kngt).

1071b **D. ruber** var. **segusinus** (Muller). White Plains, Je, *Ols*, Je, *Bno* (Kngt). **LI:** Maspeth, Je–Jl, *Ols* (*Kngt*).

SUBFAMILY **ORTHOTYLINAE**

PARTHENICUS Reuter

1214 **P. juniperi** (Heid.). Taughannock, Jl (*Kngt*); W. Nyack, Sep, at light, *Ols* (Kngt); Mosholu, Jl, *Bno* (Heid), type locality; **LI:** Rockaway Beach, Sep, *WAHoffman* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt); Coram, Jl, *Eng* (Kngt). *Juniperus virginiana.*

1199 **P. vaccini** (VanD.). **LI:** Sea Cliff, *Bks* (Kngt). Vaccinium.

HALTICUS Hahn

1122 **H. citri** (Ashm.). Fulton Co, *Alex* (EPV); Buffalo, Sep (*EPV*); Boston, Aug (*EPV*); Hamburg, Jl–Aug (*EPV*); Gowanda, Aug (*EPV*); Cattaraugus Co, Aug (*Kngt*); Ithaca, Jl (Kngt–CU); White Plains, Je–Sep, *Bno* (Kngt); Yorktown Hgts., Sep, *Ols* (Kngt). White clover, beans, *Plantago lanceolata*; recorded also on many other plants.

1120 **H. intermedius** Uhl. Batavia, Jl–Aug (*Kngt*); Elma, Je (*EPV*); Cattaraugus Co, Aug (*Kngt*); Wyoming Co, Aug (*Kngt*); McLean Bogs, Ithaca, Jl, *Buys* (Kngt); Ringwood, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt). *Clematis virginiana.*

STRONGYLOCORIS Blanchard

1123 **S. stygica** (Say). Cranberry L., Jl, *Drk* (Kngt); Batavia, Je–Aug (*Kngt*); Ithaca, Jl (*Kngt*). *Solidago* spp.

ORTHOCEPHALUS Fieber

1189 **O. mutabilis** (Fall.). Ithaca, Je–Jl (*Kngt*); Ringwood, Jl (*Kngt*); McLean, Jl (*Kngt*); Owego, Jl, *JLFrank* (Kngt). *Chrysanthemum leucanthemum.*

LABOPS Burmeister

L. hirtus Kngt. Axton, Je, *MacG* (Kngt); Cranberry L., Jl, *Drk* (Kngt); Conifer, Jl, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Wilmington, Jl, *Ds* (Kngt); Clinton Co, Je (Kngt); Peru, Je, *Ds* (Kngt); Fulton Co, *Alex* (Kngt).

HADRONEMA Uhler

1153 **H. militaris** Uhl. **LI:** Yaphanak, May, *Ols,* Je, *Ds* (Kngt). *Baptisia tinctoria.*

ILNACORA Reuter

1185 **I. malina** (Uhl.). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl, *Drk* (Kngt); Adirondacks, Aug (*EPV*); Fulton Co, *Alex* (EPV); Hamburg, Jl (*EPV*); Lancaster, Jl (*EPV*); Four Mile, Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*); Pine I., Je, *Brb* (Kngt); White Plains, Je, *Bno* (Kngt); Oliverea, Je, *Ds* (Kngt). *Solidago rugosa,* growing in shaded damp places at Four Mile.

1184 **I. stalii** Reut. "NY", *Belfrage* (Reut '76); Buffalo, Jl–Aug (*EPV*); Lancaster, Jl (*EPV*); Ithaca, Jl (*Kngt*); **LI:** Brooklyn, Aug, *Ds* (Kngt). Occurs on cocklebur and other herbaceous weeds.

LOPIDEA Uhler

1143 **L. caesar** (Reut.). Ithaca, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); West Point, Sep, Ft. Montgomery, Jl, *Ds* (Kngt).

1147 **L. confluens** (Say). Batavia, Jl (*Kngt*); Enfield Glen, Aug, *Buys* (Kngt); Colden, Jl, *EPV* (Kngt); Salamanca, Aug, *EPV* (Kngt); White Plains, Jl, *Bno* (Kngt); **LI:** Cold Sp. Harb., Jl–Aug, *Parsh* (Kngt). *Polymnia uvedalia,* and probably *P. canadensis.*

1152 **L. cuneata** VanD. Lancaster, Sep (*EPV*), type locality. *Populus balsamifera* and *P. deltoides.*

1089¾ **L. davisi** Kngt. **LI:** Half Way Hollow Hills, *Ds* (Kngt). Both wild and cultivated Phlox.

L. minor Kngt. Ithaca, Je, *Buys* (Kngt).

L. heidemanni Kngt. Batavia, Je (*Kngt*), type locality; Lancaster, Je, *EPV* (Kngt); Four Mile, Jl (*Kngt*); Portageville, Je (*Kngt*); Conesus L., Jl (*Kngt*); Honeoye Falls, Je (*Kngt*); Rochester Jct., May, *Leon* (Kngt); Ithaca, Je (*Kngt*–CU); West Pt., Je, *Ds* (Kngt); Pine I., Je, *Ds* (Kngt); White Plains, Je, *Bno* (Kngt); Grand View, Je, *Brb* (Kngt); Oliverea, Je, *Ds, Shoe* (Kngt); W. Nyack, Je, *Ols* (Kngt); **LI:** Farmingdale, Jl, *Morrow* (Kngt); Yaphank, Jl, *Ds* (Kngt). Ulmus, and *Achillea millefolium.*

1145a **L. marginalis** Reut. Elka Pk., Aug, *Blkm* (Kngt); Ithaca, Jl (*Kngt*); Enfield Glen, Aug, *Buys* (Kngt); Ft. Montgomery, Jl, *Ds* (Kngt); White Plains, Jl–Aug, *Bno* (Kngt); Saugerties, Jl, *Brb* (Kngt); **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt).

1146 **L. media** (Say). L. Placid, Aug (*EPV*); Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Conifer, Jl, *Osb* (Kngt); Wanakena, Aug, *Drk* (Kngt); Cascade L., Aug, *Brb* (Kngt); Wilmington, Jl, *Ds* (Kngt); Batavia, Jl (*Kngt*); Niagara Falls, Aug (*EPV*); Buffalo, Jl (*EPV*); Colden, Jl (*EPV*); Hamburg, Jl (*EPV*); Elma, Aug (*EPV*); Lancaster, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Otto, Jl, *Comst* (Kngt); Four Mile, Jl (*Kngt*); McLean, Jl, *Buys* (Kngt); Ithaca, Aug (Kngt–CU); McLean, Jl (*Kngt*); Pine I., Je, *Ds* (Kngt); White Plains, Je–Jl, *Bno* (Kngt); Mosholu (Heid); **SI,** Jl, *Ds*; **LI:** Bellport (Kngt–Brooklyn Museum); Bay Shore, Jl, *Ols* (Kngt); Cold Sp. Harb., Jl–Aug, *div.* (Kngt). *Solidago rugosa,* and probably other herbaceous plants.

L. reuteri Kngt. L. George, Jl, *AKFisher* (Kngt); Ramapo, Jl, *Ds* (Kngt); Bear Mt., Aug, *Schott* (Kngt). Witch-hazel (*Hamamelis virginiana*).

1149 **L. robiniae** (Uhl.). Batavia, Jl–Aug (*Kngt*); Niagara Falls, Aug (*EPV*); Gowanda, Aug (*EPV*); Wyoming Co, Sep (*Kngt*); Honeoye Falls, Aug (*Kngt*); Ithaca, Jl (*Kngt*); L. Mahopac, Aug (*Bno*); White Plains, Jl–Aug, *Bno* (Kngt); Yonkers, Jl, *Bell* (Kngt); **LI:** Gardiner's I., Aug, *Ds* (Kngt); Flushing, Jl, *Ds* (Kngt); Kings Pk., Jl, *Bell* (Kngt); High Hill, Aug (*Bno*); Farmingdale, Jl, *Morrow* (Kngt); Cold Sp. Harb., Jl–Aug, *Bno, Brb* (Kngt); Wading R., Jl, *Ds* (Kngt); Yaphank, May (Kngt–Brooklyn Museum). Black locust (*Robinia pseudacacia*).

L. salicis Kngt. Batavia, Je (*Kngt*); Portageville, Je (*Kngt*); Honeoye Falls, Je (*Kngt*), type locality; Rochester Jct., Je, *Leon* (Kngt); Ithaca, Je (*Kngt*); Owego, Jl, *JLFrank* (Kngt). *Salix nigra.*

L. staphyleae Kngt. Batavia, Jl (*Kngt*), type locality; Lancaster, *EPV* (Kngt). *Staphylea trifolia.*

MECOMMA Fieber

1188 **M. gilvipes** (Stål). Cranberry L., Jl, *Drk* (Kngt); Wanakena, Jl–Aug, *Drk* (Kngt); Ausable R., Aug (*EPV*); Fulton Co, *Alex* (*EPV*).

CYRTORHINUS Fieber

C. vagus Kngt. **LI:** Rockaway Beach, Sep, *WAHoffman* (Kngt), type locality; Sea Cliff, Aug–Sep, *Bks* (Kngt); Orient, Sep, *Schott* (Kngt). Occurs on sedges.

ORTHOTYLUS Fieber

O. alni Kngt. Cranberry L., Jl, *Drk* (Kngt); Mt. Marcy, 5000 ft., Jl, *Ds* (Kngt); McLean Bogs, Jl (*Kngt*), type locality; Lancaster, Aug, *EPV* (Kngt). *Alnus rugosa.*

O. basicornis Kngt. Cranberry L., Jl, *Drk* (Kngt) (*viridis*, Drk '22); Lancaster, Aug, *EPV* (Kngt); Batavia, Aug (*Kngt*), type locality. *Salix longifolia.*

1178¼ **O. candidatus** VanD. Cranberry L., Aug, *Htly* (Kngt). *Populus tremuloides.*

1175½ **O. catulus** VanD. Wanakena, Jl, *Osb,* Aug, *Drk* (Kngt); Niagara Falls, Je (*EPV*); Hamburg, Je (*EPV*). *Gnaphalium uliginosum.*

1179⅜ **O. cruciatus** VanD. White Plains, Je, *Bno* (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt). Found on *Betula populifolia* by Bueno.

1176 **O. dorsalis** (Prov.). Cranberry L., Jl–Aug, *div.* (Kngt); Wanakena, Jl, *Osb* (Kngt); Batavia, Jl–Aug (Kngt); Honeoye Falls, Je (*Kngt*); McLean, Jl (*Kngt*); Ithaca, Je (*Kngt*); Ringwood, Jl (*Kngt*); White Plains, Je, *Ols, Bno* (Kngt).

1172 **O. flavosparsus** (Sahlb.). Batavia, Jl–Sep (Kngt); Buffalo, Je (*EPV*); Hamburg, Jl (*EPV*); Tonawanda, Aug (*EPV*); Ithaca, Jl (*Kngt*); White Plains, Je–Aug, *Bno* (Kngt). *Chenopodium album.*

1179⅜ **O. knighti** VanD. Batavia, Jl, *Kngt* (EPV), type locality (actually nearer to Attica). *Populus candicans.*

1175⅞ **O. modestus** VanD. Batavia, Jl, *Kngt* (EPV); Buffalo, Aug (*EPV*); Salamanca, Jl (EPV); Honeoye Falls, Jl, *Leon* (EPV), type locality; Ithaca, Jl (*Kngt*); L. Mahopac, Aug, *Bno* (Kngt); White Plains, Je, *Bno* (Kngt); **LI:** Cold Sp. Harb., *Parsh* (Kngt). *Salix fragilis* and *S. nigra.*

O. modestus var. **immaculatus** Kngt. Batavia, Jl (*Kngt*), type locality; Honeoye Falls, Aug (*Kngt*); White Plains, *Bno* (Kngt). **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt). Breeds on Salix.

1178½ **O. necopinus** VanD. Cranberry L., Jl, *Htly* (Kngt); Mt. Whiteface, Jl, *Ds* (Kngt); Buffalo, Je (*EPV*); Ringwood, Jl (*Kngt*). *Betula lutea.*

O. neglectus Kngt. Cranberry L., Jl, *Drk, Htly* (Kngt); Clayville, Je, *Buys* (Kngt); Batavia, Je (*Kngt*); Honeoye Falls, Je (*Kngt*); McLean, Jl (*Kngt*), type locality. *Salix nigra.*

1179¾ **O. ornatus** VanD. Honeoye Falls, Je–Jl, *Leon* (EPV, Kngt), type locality; White Plains, Je, *Bno* (Kngt). *Salix fragilis.*

O. serus VanD. Batavia, Je–Jl (*Kngt*); Colden, Jl (*EPV*); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Four Mile, Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*); McLean, Jl (*Kngt*). Crataegus, and cultivated apple.

1178 **O. submarginatus** (Say). Hamburg, Jl (*EPV*); Ithaca, Jl (*Kngt*); **LI:** Cold Sp. Harb., Jl–Aug, *div.* (Kngt). *Robinia pseudacacia.*

1174 **O. translucens** Tuck. Batavia, Jl (*Kngt*); Buffalo, Je (*EPV*); Elma (*EPV*). *Salix longifolia.*

1175⅛ **O. viridis** VanD. Batavia, Jl–Aug, *Kngt* (EPV), type locality; **LI:** Cold Sp. Harb., Jl–Aug, *Bno* (Kngt).

DIAPHNIDIA Uhler

1168 **D. capitata** VanD. Cranberry L., Jl–Aug, *Drk* (Kngt); Wanakena, Jl–Aug, *Drk* (Kngt); Johnstown, Aug, *Alex* (EPV), type locality; Batavia, Jl (*Kngt*); Ithaca, Jl (*Kngt*); **LI**: Cold Sp. Harb., Jl, *Bno* (Kngt). Witch-hazel (*Hamamelis virginiana*); hazelnut (Corylus), acc. Drk '22.

1166 **D. pellucida** Uhl. L. Placid, Aug (*EPV*); Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Wanakena, Jl–Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Mt. Whiteface, Aug (*Kngt*); Batavia, Je–Aug (*Kngt*); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Conesus L., Jl (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je–Jl, *Bno* (Kngt). Apple, *Ostrya virginiana,* and probably other plants.

1167 **D. provancheri** (Burque). Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Batavia, Aug (*Kngt*); Hamburg, Sep (*EPV*); Boston, Jl (*EPV*); Gowanda, Aug (*EPV*); White Plains, Jl, *Bno* (Kngt). White oak (*Quercus alba*); beech and yellow birch (Drk, 1922).

REUTERIA Puton

1169 **R. irrorata** (Say). Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl–Aug (*Kngt*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Saugerties, Jl, *Brb* (Kngt); White Plains, Jl, *Bno* (Kngt); Central Pk., NYC, Jl, *Ds* (Kngt); **LI**: Cold Sp. Harb., Jl, *Parsh* (Kngt). Tilia, and *Quercus alba.*

NOCTUOCORIS Knight

1178¾ **N. fumidus** (VanD.). Batavia, Jl–Aug (*Kngt*). Nocturnal in habits.

HETEROTOMA Latreille

1180½ **H. merioptera** (Scop.). Honeoye Falls, Aug, *Leon* (Kngt). Probably imported on nursery stock.

HETEROCORDYLUS Fieber

1127 **H. malinus** Reut. Ithaca, Brockport, Syracuse, LaFayette, Batavia, Waterloo, West Palmyra, Albany (Cy); Batavia, Je–Jl (*Kngt*); Colden, Jl, *EPV* (Reuter), type locality; Hamburg, Je (*EPV*); Portageville, Je (*Kngt*); Wyoming Co., Je (*Kngt*); Ithaca, Je (*Kngt*); Ringwood, Je–Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Je, *Bno* (Kngt).
Native on Crataegus; breeds on wild apple; frequent on apple trees.

CERATOCAPSUS Reuter

C. digitulus Kngt. Cranberry L., Aug, *Htly* (Kngt); Batavia, Jl (*Kngt*); Cattaraugus Co, Aug (*Kngt*); **LI**: Wyandanch, Aug, *Ols* (Kngt); Yaphank, Jl, *Ds* (Kngt). Breeds on Salix.

C. drakei Kngt. Wanakena, Aug, *Drk* (Kngt), type locality.

1142 **C. fasciatus** (Uhl.). Batavia, Aug (*Kngt*); Niagara Falls, Aug (*EPV*); Hamburg, Aug (*EPV*); Boston, Aug (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Aug (*EPV*); Ithaca, Jl (*Kngt*); **SI**, Jl, *Ds* (Kngt). Breeds on hickory (Carya).

C. fuscinus Kngt. Batavia, Aug (*Kngt*); Honeoye Falls, Aug (*Kngt*); **LI**: Cold Sp. Harb., Aug, *Bno* (Kngt). Occurs on *Salix nigra.*

C. incisus Kngt. Batavia, Jl–Aug (*Kngt*); Cattaraugus Co, Aug (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); **LI:** Cold Sp. Harb., Aug, *Bno* (Kngt). Occurs on Salix.

1137 **C. lutescens** Reut. **LI:** Bellport, Sep, *Eng* (Kngt).

C. luteus Kngt. White Plains, Jl, *Bno* (Kngt), type locality.

1225 **C. modestus** Uhl. Cranberry L., Aug, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Jl–Aug (*Kngt*); Portageville, Aug (*Kngt*); Ithaca, Jl (*Kngt*); Ft. Montgomery, Aug, *Schott* (Kngt); White Plains, Jl, *Bno* (Kngt); Central Pk., NYC, Jl, *Ds* (Kngt); **LI:** Greenport, Aug, *Eng* (Kngt); Cold Sp. Harb., Aug, *Bno* (Kngt); Bear Mt., Aug, *Schott* (Kngt). Occurs on basswood (Tilia) and grapevine (*Vitis* sp.).

C. nigellus Kngt. Batavia, Jl–Aug (*Kngt*), type locality; Conesus L., Jl (*Kngt*); Ithaca, Jl (*Kngt*); White Plains, Aug, *Bno* (Kngt). Breeds on hickory (Carya).

C. pilosus Kngt. Ithaca, Je (*Kngt*); **LI:** Bay Shore, Je, *Ols* (Kngt). Occurs on *Ostrya virginiana.*

1139 **C. pumilus** (Uhl.). Cranberry L., Aug, *Drk, Htly* (Kngt); Madison Barracks, Aug (*Kngt*); Batavia, Jl–Aug (*Kngt*); Hamburg, Jl (*EPV*); Gowanda, Aug (*EPV*); Salamanca, Jl (*EPV*); Honeoye Falls, Aug (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); W. Nyack, Aug, *Bno* (Kngt); **LI:** Cold Sp. Harb., Aug, *Bno* (Kngt). Occurs on *Vitis* spp.

C. sericeus Kngt. Mosholu, Aug, *Ds* (Kngt); **LI:** Pinelawn, Aug, *Schott* (Kngt).

C. vicinus Kngt. **SI,** Jl, *Ds* (Kngt), type locality; **LI:** Wyandanch, Aug, *Ols* (Kngt); Pinelawn, Aug, *Ds* (Kngt); Yaphank, Aug, *Ds* (Kngt).

ALEPIDIA Reuter

1133 **A. gracilis** (Uhl.). Taughannock, Jl (*Kngt*); White Plains, Jl, *Bno* (Kngt); **LI:** Bellport, *Eng* (Kngt); Bay Shore, Jl, *Ols* (Kngt); High Hill, Aug (*Bno*). Breeds on *Pinus resinosa.*

PILOPHORUS Westwood

1131 **P. amoenus** Uhl. **LI:** Bay Shore, Jl, *Ols* (Kngt); Bellport, *Eng* (Kngt); Yaphank, Jl, *Ds* (Kngt). Breeds on *Pinus virginiana.*

P. brunneus Poppius. Cranberry L., Jl, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Jl–Aug (*Kngt*); Ithaca, Jl (*Kngt*); McLean, Jl (*Kngt*); White Plains, Jl–Aug, *Bno* (Kngt). Occurs on Salix.

1128 **P. clavatus** (L.). Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Batavia, Jl–Aug (*Kngt*); White Plains, Jl, *Bno* (Kngt); Oliverea, Je, *Ds* (Kngt). Occurs most frequently on Quercus.

P. strobicola Kngt. (*crassipes* Kngt., Hemip. Conn., p. 542, 1923). L. Placid, Aug, *EPV* (Kngt); Cranberry L., Jl–Aug, *Drk* (Kngt); Mt. Whiteface, Aug (*Kngt*); Madison Barracks, Aug (*Kngt*); Ithaca, Je–Jl (*Kngt*); Ringwood, Jl (*Kngt*). Breeds on *Pinus strobus.*

P. juniperi Kngt. White Plains, Jl, *Bno* (Kngt), type locality. Breeds on *Juniperus virginiana.*

P. laetus VanD. **LI:** Bay Shore, Jl, *Ols* (Kngt). Breeds on *Pinus virginiana.*

P. perplexus Douglas & Scott. Batavia, Jl–Aug (*Kngt*); Geneva, Jl, *Fulton* (*walshii*, Fulton '13); White Plains, Jl, *Bno* (Kngt). Occurs on goldenrod (Solidago), and has been taken on cherry, apple, and red cedar; predacious on aphids (Fulton, 1913, Ann. Ent. Soc. Am.).

P. piceicola Kngt. White Plains, Je, *Bno* (Kngt); Hartsdale, Jl, *Bno* (Kngt), type locality; **LI:** Cold Sp. Harb., Jl, *Bno* (Kngt). Breeds on *Picea excelsa.*

P. uhleri Kngt. Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl (*Kngt*); Ithaca, Je–Jl (*Kngt*), type locality; White Plains, Jl (*Kngt*). Breeds on *Pinus sylvestris.*

P. vanduzeei Kngt. Taughannock, Jl (*Kngt*), type locality; Ithaca, Jl (*Kngt*); **LI:** Amagansett, Aug, *Ols* (Kngt); Bay Shore, Jl, *Ols* (Kngt); Wyandanch, Sep, *Ols* (Kngt); Riverhead, Aug, *Ds* (Kngt). Breeds on *Pinus resinosa.*

SERICOPHANES Reuter

S. heidemanni Poppius. Fulton Co, *Alex* (EPV); Kingston, Aug (*EPV*); Buffalo, Je (*EPV*); Batavia, Je–Aug (*Kngt*); McLean, Jl (Kngt–CU). Nocturnal; males frequently attracted to lights.

PSEUDOXENETUS Reuter

1159 **P. regalis** (Uhl.). **LI:** Yaphank, Je, *Sf* (Kngt). Occurs on live oak (*Quercus virginiana*).

1160 **P. scutellatus** (Uhl.). Syracuse, Je, *Basinger* (Kngt); Batavia, Je–Jl (*Kngt*); Buffalo, Je (*EPV*); Gowanda, Aug (*EPV*); Portageville, Je (*Kngt*); Conesus L., Je (*Kngt*); Ithaca, Je (*Kngt*); Grand View, Je, *Brb* (Kngt); Bronxville, Je (*Wood*); **LI:** Nissequogue, Je, *Ds* (Kngt); Coram, *Bno* (Kngt); Yaphank, Je, *Ds* (Kngt); Pine I., Je, *Sf* (Kngt). *Quercus alba, Q. Muhlenbergii,* and occasionally Fraxinus.

SUBFAMILY MIRINAE

PITHANUS Fieber

P. maerkelii H-S. Honeoye Falls, Je (Kngt); White Plains, *Kngt&Bno* (Kngt); **LI:** Maspeth, Je, *Ols* (Kngt). Grasses.

MIMOCEPS Uhler

M. insignis Uhl. Cranberry L., Jl, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Buffalo, Je–Sep, Cheektowaga, Je, Hamburg, Jl, Conesus L., Aug, Springbrook, Je (EPV); Armonk, Je, *Bno* (Kngt); White Plains, Je, *Bno* (Kngt). Sedges.

COLLARIA Provancher

C. meilleurii Prov. Cranberry L., Jl–Aug, Wanakena, Aug, *Drk* (Kngt); L. Placid, Aug–Sep (EPV); Conifer, Jl, *Osb* (Kngt); Sodus Point, Aug, *Buys* (Kngt); Batavia, Jl–Aug (Kngt); Buffalo, Je–Aug (EPV); Hamburg, Jl (EPV); Lancaster, Jl–Aug, Colden, Jl, *EPV* (Kngt); Otto, Jl, *Comst* (Uhl); Ithaca, Ringwood, Jl (Kngt); Fulton Co, *Alex* (EPV); E. Jewett, Aug, *Ds* (Kngt); Mosholu (Heid). *Calamagrostis canadensis* and other grasses in similar situations.

C. oculata Reut. Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Hamburg, Jl–Sep, Colden, Jl (EPV); White Plains, Je–Oct, *Bno* (Kngt); Mosholu (Heid); **SI**, Aug, *Ds* (Kngt); **LI**: Forest Hills, Sep, *Ols* (Kngt); Gardiners I., Je, *Ds* (Kngt). Grasses in dry sandy meadows.

MIRIS Fabricius

M. dolabratus L. Wilmington, Jl, *Ds* (Kngt); Axton, Je, *MacG* (EPV); L. Placid, Aug (EPV); Wanakena, Je–Jl, *Drk* (Kngt); Sodus Point, Je, *Buys* (Kngt); Batavia, Je (Kngt); Victor, Je, *EPV* (Kngt–CU); Buffalo, May–Aug (EPV); Hamburg, Je (EPV); Wyoming Co, Je (Kngt); Otto, Jl, *Comst* (Uhl); Ithaca, Je–Jl (Kngt–CU); Four Mile, McLean, Jl (Kngt); Albany, Je (Kngt); Bronxville, Je (Wood); **LI**: Gardiners I., Je, *Ds* (Kngt). Blue grass (*Poa pratensis*), timothy, and frequently other grasses.

M. ferrugatus Fall. Ithaca, Je–Jl, Ringwood, McLean, Jl (Kngt).

TERATOCORIS Fieber

T. discolor Uhl. Buffalo, Aug–Sep, *EPV* (Kngt); Lancaster, Aug–Sep, Hamburg, Sep (EPV); Ithaca, Je (Kngt). Sedges; attracted to light.

T. paludum J. Sahlb. Cranberry L., Jl, *Drk* (Kngt); Buffalo, Aug, *EPV* (Kngt); Conifer, Jl, *Osb* (Kngt); Schuyler L., Aug, *Buys* (Kngt). *Carex vesicaria*; attracted to light.

TRIGONOTYLUS Fieber

T. uhleri Reut. Mamaroneck, Oct, *Bno* (Kngt); **SI**, Je, Sep, *Ds* (Kngt); **LI**: Sea Cliff, Aug, *Ols* (Kngt); Rockaway Beach, Sep, *Ds*, Cold Sp. Harb., Aug, *Bno* (Kngt). Salt meadows.

T. ruficornis Geoff. Axton, Je, *MacG* (EPV); Mt. Whiteface, Aug (Kngt); L. Placid, Aug (EPV); Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Honeoye Falls, Je (Kngt); Batavia, Je–Aug (Kngt); Buffalo, Je–Jl (EPV, Kngt); Hamburg, Aug (EPV); Colden, Jl (EPV, Kngt); Lancaster, Je, *EPV* (Kngt); Wyoming Co, Je (Kngt); Ithaca, Je, McLean, Jl (Kngt); White Plains, Jl, at light (Bno); **LI**: Maspeth, Je, *Ols* (Kngt). Oats and closely related wild grasses.

MESOMIRIS Reuter

M. curtulus Reut. **SI**, Aug, *Ds* (Kngt); **LI**: Bellport, Aug, *Eng* (Kngt); Sea Cliff, Aug, *Ols* (Kngt).

STENODEMA Laporte

S. trispinosum Reut. Cranberry L., Je–Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Buffalo, May–Aug (EPV); Portageville, May-Je, *EPV* (*Kngt*); Lime L., Aug, *EPV* (Kngt); Ithaca, Oct (Kngt); Mamaroneck, Oct, *Bno* (Kngt); Schuyler L., Aug, *Buys* (Kngt); White Plains, Jl–Oct, *Bno* (Kngt); **LI**: Yaphank, May, *Ds* (Kngt); Wyandanch, Aug, *Ols* (Kngt); May–Sep, *Ds* (Kngt). Grasses in moist meadows; adults hibernate.

S. vicinum Prov. Axton, Je, *MacG* (EPV); Mt. Whiteface, Aug (Kngt); Cranberry L., Jl–Aug, *Drk* (Kngt); Schuyler L., Aug, *Buys* (Kngt); L. Placid, Jl–Aug (EPV); Fulton Co, *Alex* (EPV); Batavia, Ap–Sep (Kngt); Conesus L., Jl (Kngt); Buffalo, Aug (EPV); Hamburg, Jl–Aug (EPV); Lancaster, Je–Sep, *EPV* (Kngt); Colden, Jl, *EPV* (Kngt); Portageville, May (Kngt); Four Mile, Jl (Kngt); Ithaca, Jl (Kngt); McLean, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Ft. Montgomery, Sep, *Schott* (Kngt): White Plains, Oct (Kngt); **LI**: High Hill, Aug (Bno).

SUBFAMILY CAPSINAE

OPISTHEURIA Reuter

O. clandestina VanD. Ft. Montgomery, Jl, *Ds* (Kngt).

O. clandestina var. **ventralis** Kngt. Ithaca, Jl (Kngt).

PLATYTYLELLUS Reuter

P. borealis Kngt. Cranberry L., Jl–Aug, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); Colden, Jl, *EPV* (Kngt); Conifer, Jl, *Osb* (Kngt); McLean, Jl, *MacG* (Kngt).

P. circumcinctus Say. Wanakena, Aug, *Drk* (Kngt).

P. fraternus Kngt. Ft. Montgomery, Je, *Schott* (Kngt).

P. fraternus var. **rubromarginatus** Kngt. Ft. Montgomery, Je, *Schott* (Kngt).

P. insignis Say. Cranberry L., Aug, *Drk* (Kngt); Wanakena, Aug, *Drk* (Kngt); **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt).

P. insitivus Say. Cranberry L., Jl, *Drk* (Kngt); Buffalo, Jl, *EPV* (Kngt); Portageville, Je (Kngt); Pine I., Je (Wood); **LI:** Bellport, *Eng* (Kngt); Rockaway, Je, *Ds* (Kngt).

P. nigricollis Reut. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Syracuse, Aug, *Basinger* (Kngt); Springbrook, Je (EPV); Ringwood, Aug, *Buys* (Kngt); Ithaca, Jl (Kngt); McLean, Jl, *Jessie Knight* (Kngt); Elka Pk., Aug, *Drk* (Kngt); Catskills, Aug, *Ds* (Kngt); West Pt., Jl, *Eng* (Kngt); **LI:** Jl, *Ds* (Kngt); Bellport, Jl, *Eng* (Kngt); Kings Pk., Jl, *Bell* (Kngt).

P. nigroscutellatus Kngt. Batavia, Aug (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Lancaster, Jl, *EPV* (Kngt); Ithaca, Jl–Aug (Kngt–CU), type locality.

P. rubrovittatus Stål. Cranberry L., Wanakena, Aug, *Drk* (Kngt); **LI:** Bellport, *Eng* (Kngt).

TROPIDOSTEPTES Uhler

T. cardinalis Uhl. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Hamburg, Elma, Lancaster, Je (EPV); Conesus L., Je (Kngt); Four Mile, Jl, Ithaca, Je (Kngt); Ellis, Je, *MacG* (Kngt); Pine I., Je, *Ds* (Kngt); Ft. Montgomery, Je, *Schott* (Kngt). *Fraxinus americana.*

NEOBORUS Distant

N. amoenus Reut. Cranberry L., Jl, *Drk* (Kngt); Batavia, Je–Aug (Kngt); Conesus L., Jl–Aug (Kngt, EPV); Buffalo, Boston, Hamburg, Gowanda, Aug (EPV); Salamanca, Jl (EPV); Wyoming Co, Sep (Kngt); Ithaca, Jl (Kngt); L. Mahopac, Aug, *Bno* (Kngt); Pine I., Je (Brooklyn Museum); White Plains, Sep, *Bno* (Kngt); **LI:** High Hill, Aug (Bno). *Fraxinus americana, F. pennsylvanica*; two generations.

N. amoenus var. **scutellaris** Reut. White Plains, Je, *Bno* (Kngt).

N. amoenus var. **signatus** Reut. Mt. Whiteface, Aug (Kngt); Batavia, Aug (Kngt).

N. canadensis VanD. Batavia, Aug (Kngt); Geneva, Je (EPV); Ithaca, Je (Kngt). *Fraxinus americana.*

N. geminus Say. Batavia, Je (Kngt); Colden, Je (EPV); Ithaca, Je, Four Mile, Jl (Kngt). *Fraxinus americana.*

N. glaber Kngt. Batavia, Je (Kngt), type locality; Ithaca, Je (Kngt). *Fraxinus americana.*

N. palmeri Reut. Honeoye Falls, Je, Batavia, Je–Aug (Kngt); Hamburg, Aug (EPV); Ithaca, Je (Kngt). *Fraxinus americana*, and probably other ash trees.

N. pubescens Kngt. Cranberry L., Je–Aug, *Drk* (Kngt); Fulton Co, *Alex* (Kngt); Batavia, Jl (Kngt); Elma, Je, Hamburg, Jl–Aug, Salamanca, Jl, Gowanda, Aug (EPV); Ithaca, Jl (Kngt), type locality; Bear Mt., Aug, *Schott* (Kngt); White Plains, Je–Jl, *Bno*, *Parsh* (Kngt). *Fraxinus americana*, but found developing only on young plants in shaded situations.

N. rufusculus Kngt. Batavia, Je, Portageville, Je, Wyoming Co, Je (Kngt); Ithaca, May–Je (Kngt), type locality. *Fraxinus americana.*

XENOBORUS Reuter

X. commissuralis Reut. Fulton Co, *Alex* (EPV); Batavia, Jl–Aug (Kngt); Salamanca, Jl (EPV); Ithaca, Jl (Kngt). *Fraxinus nigra.*

X. neglectus Kngt. Batavia, Je (Kngt); Tompkins Co, Je, *MacG* (Kngt), type locality.

X. pettiti Reut. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Colden, Hamburg, Geneva, Je (EPV); Conesus L., Je (Kngt); Portageville, Je (Kngt); Wyoming Co, Je (Kngt); Ithaca, Je (Kngt); White Plains, Je, *Bno, Parsh* (Kngt).

X. plagifer Reut. Fulton Co, *Alex* (EPV); Batavia, Aug (Kngt). *Fraxinus nigra.*

LYGIDEA Reuter

L. mendax Reut. APPLE REDBUG. LaFayette, Syracuse (Cy); W. Palmyra, Brockport (Cy); Batavia, Je–Jl (Kngt); Colden, Jl, *EPV* (Reut); Hamburg, Jl, *EPV* (Reut), type locality; Portageville, Wyoming, Je (Kngt); Gowanda, Jl (Reut); Waterloo, Ithaca (Cy); McLean, Jl, Ringwood, Je (Kngt); Albany (Cy); White Plains, Je, *Bno* (Kngt); **LI:** Yaphank, Jl, *Ds* (Kngt). Crataegus, *Pyrus coronaria*, cultivated apple, and to some extent quince.

L. obscura Reut. Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); L. Placid, Aug, *EPV* (Kngt), type locality; Honeoye Falls, Je, Batavia, Jl (Kngt); Tompkins Co, Je, *MacG* (Kngt); White Plains, Jl, *Bno* (Kngt). *Salix nigra.*

L. viburni Kngt. Cranberry L., Jl, *Osb* (as *rubecula* Uhl. det. Drk); Batavia, Je–Jl (Kngt), type locality; Wyoming Co, Jl (Kngt). Nannyberry (*Viburnum lentago*); breeds especially on young growth.

COCCOBAPHES Uhler

C. sanguinareus Uhl. Mt. Whiteface, Jl, *Ds* (Kngt); Cranberry L., Jl–Aug, *Drk*, *Htly* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je–Jl (Kngt); Honeoye Falls, Je (Kngt); Conesus L., Je (Kngt); Buffalo, Jl–Aug, Hamburg, Je–Jl, Colden, Jl, Boston, Jl, Salamanca, Jl (EPV); Ithaca, Jl (Kngt); Ringwood, Jl (Kngt); Four Mile, Jl (Kngt); Oliverea, Je–Jl, *Shoe*, *Ds* (Kngt); Central Val., Jl (Bno); Ft. Montgomery, Jl, *Schott* (Kngt).

CAPSUS Fabricius

C. ater L. Wilmington, Jl, *Ds* (Kngt); Cranberry L., Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Niagara Falls, Je (EPV); Batavia, Je (Kngt); Buffalo, May–Aug (EPV); Hamburg, Jl (EPV); Portageville, Je (Kngt); Otto, Jl, *Comst* (CU); Ithaca, Je (Kngt–CU); McLean Bogs, May, *Buys* (Kngt); Four Mile, Jl (Kngt); White Plains, Je, *Bno* (Kngt); **SI,** Je, *Ds* (Kngt); **LI:** Wading R., May–Jl, *Ds* (Kngt). *Poa compressa, Agropyron repens,* and probably other grasses.

C. ater var. **tyrannus** Fab. Niagara Falls, Buffalo, Je (EPV); Batavia, Je (Kngt).

C. ater var. **semiflavus** L. Cranberry L., Jl–Aug, *Drk* (Kngt); Niagara Falls, Je (EPV); Batavia, Je (Kngt); Colden, Je (EPV); Four Mile, Jl, Ithaca, Je (Kngt).

PLATYLYGUS Van Duzee

P. luridus Reut. Cranberry L., Jl–Aug, *Drk* (Kngt); L. Placid, Aug, *EPV* (Reut), type locality; Ringwood, Jl (Kngt). *Pinus strobus.*

LYGUS Hahn

L. approximatus Stål. Mt. Whiteface, Aug (Kngt); Cascade L., Aug, *Brb* (Kngt); Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt). Hemlock (*Tsuga canadensis*); frequently attracted to flowers of *Solidago macrophylla.*

L. campestris L. Syracuse, Jl, *Basinger* (Kngt); Batavia, May–Jl (Kngt); Hamburg, Je, Colden, Jl (EPV); Ithaca, McLean, Jl (Kngt); West Pt., Jl, *Brb* (Kngt); Schuyler L., Aug, *Buys* (Kngt); Mosholu (Heid). *Conium maculatum,* also on other plants of the family Umbelliferae.

L. fasciatus Reut. **LI:** Bayville, *Bks* (Kngt), taken on *Baccharis halimifolia.*

L. pabulinus L. Mt. Whiteface, Aug (Kngt); Cascade L., Aug, *Brb* (Kngt); L. Placid, Aug (EPV); Wanakena, Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Johnstown, *Ds* (Kngt); Batavia, Jl–Aug (Kngt); Boston, Aug, *EPV* (Kngt); Buffalo, Jl–Aug, E. Aurora, Sep, Hamburg, Jl–Aug, Salamanca, Jl, Gowanda, Aug (EPV); Portageville, Je (Kngt); Wyoming, Je (Kngt); Howland I., Cayuga Co, under bark, Nov, *Cy* (Kngt); Ithaca, Jl (Kngt); Four Mile, Jl (Kngt); McLean, Jl, *Bno, Sib* (Kngt); Oliverea, Je, Sep, *Ds* (Kngt); **SI** (Heid); **LI:** Cold Sp. Harb., Jl, *Bno,* Flushing, Aug, *Ds* (Kngt). Breeds on *Impatiens biflora.*

L. plagiatus Uhl. Cranberry L., Je–Aug, Wanakena, Jl–Aug, *Drk* (Kngt); Batavia (Kngt); Buffalo, Je–Sep (EPV); Ithaca, Jl (Kngt); White Plains, Aug–Oct, *Bno* (Kngt); **LI:** Maspeth, Mar, *Ols,* Forest Hills, Oct, *Ols* (Kngt). Breeds on great ragweed (*Ambrosia trifida*).

L. pratensis var. **oblineatus** Say. Common throughout the State. This species is a pest on nursery stock, ornamental plants, and cultivated crops.

L. pratensis var. **strigulatus** Wlk. Cranberry L., Jl, *Drk* (Kngt); McLean, Aug (Kngt–CU).

L. rubicundus Fall. Honeoye Falls, Je (Kngt); Batavia, Jl (Kngt); Buffalo, Jl, Lancaster, May–Jl, Colden, Aug (EPV); Ithaca, Ap–Jl (Kngt); White Plains, Ap, Jl, *Bno* (Kngt). Breeds on *Salix amygdaloides,* also occurs on other willows; hibernates.

L. vanduzeei Kngt. Mt. Whiteface, Aug (Kngt); Wilmington, Jl, *Ds* (Kngt); Cranberry L., Je–Jl, *Htly* (Kngt); Wanakena, Jl (Kngt); Clayville, Je, *Buys* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Jl (Kngt); Portageville, Je (Kngt), type locality; Hamburg, Je, *EPV* (Kngt); Wyoming, Je (Kngt); Gowanda, Aug, *EPV* (Kngt); Four Mile, Jl (Kngt); Labrador L., May, *Buys* (Kngt); McLean, Jl, *Sib* (Kngt); L. George, Jl, *Fisher* (Kngt); Catskills, Sep, Oliverea, Je, Sep, *Ds* (Kngt).

L. vanduzeei var. **rubroclarus** Kngt. Cranberry L., Je–Aug, *Drk* (Kngt); Oliverea, Je, *Ds* (Kngt).

L. (Neolygus) alni Kngt. Wanakena, Jl, *Ols,* Aug, *Drk* (Kngt); Cranberry L., Jl–Aug, *Drk* (Kngt); Ithaca, Ringwood, Jl (Kngt); McLean, Jl (Kngt), type locality. Breeds on *Alnus incana.*

L. (Neolygus) atritylus Kngt. Cranberry L., Jl–Aug, *Drk*, *Htly* (Kngt). Salix.

L. (Neolygus) belfragii Reut. Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); Syracuse, Jl, *Basinger* (Kngt); Conesus L., Je, Batavia, Jl–Aug (Kngt); Colden, Je, Hamburg, Aug (EPV); Portageville, Je (Kngt); Wyoming, Je (Kngt); Gowanda, Aug, Salamanca, Jl (EPV); McLean, Jl, Ithaca, Je–Jl, Ringwood, Jl (Kngt); Four Mile, Jl (Kngt); White Plains, Aug, *Bno* (Kngt). Breeds on *Acer spicatum* and *Viburnum acerifolium.*

L. (Neolygus) canadensis Kngt. Wanakena, Jl–Aug, *Drk* (Kngt). Breeds on hazelnut (*Corylus rostrata*), according to Drk.

L. (Neolygus) canadensis var. **binotatus** Kngt. W. Nyack, Je, *Ols* (Kngt).

L. (Neolygus) caryae Kngt. Honeoye Falls, Je, *Leon* (Kngt); Batavia, Je (Kngt), type locality; Portageville, Conesus L., Je (Kngt); Hamburg, Je, *EPV* (Kngt); Ithaca, Je–Jl, McLean, Jl (Kngt). On hickory (Carya).

L. (Neolygus) caryae var. **subfuscus** Kngt. Batavia, Je–Jl (Kngt), type locality; Byron, Portageville, Je (Kngt); Conesus L., Wyoming, Je (Kngt); Spring Brook, Je, *EPV* (Kngt); Ithaca, Four Mile, Je–Jl (Kngt). Carya.

L. (Neolygus) communis Kngt. THE PEAR PLANT-BUG. Cranberry L., Wanakena, Jl–Aug, *Drk* (Kngt); Batavia, Je–Jl (Kngt), type locality; Geneva (as *invitus* Say), *Parrott&Hodgkiss*; Honeoye Falls, Je (Kngt), Hamburg, Jl, Spring Brook, Je, *EPV* (Kngt); Conesus L., Je (Kngt); Wyoming, Portageville, Je (Kngt); Salamanca, Jl, *EPV* (Kngt); McLean, Jl, *Bno*, Ithaca, Je–Jl (Kngt); Four Mile, Jl (Kngt); Oliverea, Je, *Ds* (Kngt); Bear Mt., Je, *Schott* (Kngt). Breeds on *Cornus stolonifera*, *C. paniculata*, and cultivated pear.

L. (Neolygus) confusus Kngt. Cranberry L., Jl–Aug, *Drk*, *Htly*, "white birch" (Kngt).

L. (Neolygus) fagi Kngt. Cranberry L., Je–Aug, *Drk*, *Htly* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Jl (Kngt); Conesus L., Je (Kngt); Wyoming, Je (Kngt); McLean, Ringwood, Ithaca, type locality, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Four Mile, Jl (Kngt); Hartsdale, Jl, White Plains, Je–Jl, *Bno* (Kngt). Breeds on *Fagus grandifolia* and perhaps *Betula lutea.*

L. (Neolygus) geneseensis Kngt. Batavia, Je (Kngt); Conesus L., Jl (Kngt), type locality; Portageville, Je (Kngt); Ithaca, Je–Jl (Kngt); Hartsdale, White Plains, Je, *Bno* (Kngt); **LI:** Wading R., Je, Yaphank, Jl, *Ds* (Kngt). Breeds on *Quercus alba.*

L. (Neolygus) hirticulus VanD. Ausable R., L. Placid, Aug (EPV); Cranberry L., Jl–Aug, *Drk*, *Htly* (Kngt); Wanakena, Aug, *Drk* (Kngt); Batavia, Je–Jl (Kngt); Boston, Jl–Aug, Hamburg, Jl, Lancaster, Aug (EPV); Conesus L., Je, Portageville, Aug, Wyoming, Je (Kngt); Salamanca, Jl (EPV); Four Mile, Ithaca, McLean, Jl (Kngt); Stanford, Aug (Kngt); Ashland, Aug, *Frost*, Oliverea, Je, *Ds* (Kngt); Grand View, Je, *Brb* (Kngt); **LI:** Cold Sp. Harb., Jl, *Bno* (Kngt). Breeds sparingly on several plants; reared from chestnut, beech, and woodbine (Kngt); reared from yellow birch (Drk).

L. (Neolygus) inconspicuus Kngt. Honeoye Falls, Je (Kngt); Batavia, Je–Jl (Kngt), type locality; Conesus L., Je (Kngt); Ithaca, Je, Ringwood, Jl (Kngt); White Plains, Jl, *Bno* (Kngt). *Vitis rotundifolia.*

L. (Neolygus) invitus Say. Honeoye Falls, Batavia, Je (Kngt); Conesus L., Je (Kngt); Buffalo, Niagara Falls, Colden, Je (EPV); Hamburg, Je–Jl (EPV); Portageville, Wyoming Co, Je (Kngt); Salamanca, Jl, Gowanda, Aug, *EPV* (Kngt); Ithaca, Je–Jl (Kngt); White Plains, Je–Jl, *Bno* (Kngt). *Ulmus americana.*

L. (Neolygus) johnsoni Kngt. Batavia, Jl (Kngt); Conesus L., (Kngt); McLean, Jl, Ithaca, Je, Ringwood, Je (Kngt); Oliverea, Je–Jl, *Ds, Shoe* (Kngt); Bear Mt., Je, *Schott*, White Plains, Je, *Parsh* (Kngt). *Carpinus caroliniana.*

L. (Neolygus) laureae Kngt. Four Mile, Jl (Kngt), type locality; Bear Mt., Je, *Schott* (Kngt); West Pt., Je, *Ds* (Kngt). Mountain laurel (*Kalmia latifolia*).

L. (Neolygus) neglectus Kngt. **LI:** Cold Sp. Harb., Jl, *Bno* (Kngt). *Carpinus caroliniana.*

L. (Neolygus) omnivagus Kngt. Conesus L., Je, Batavia, Je–Aug (Kngt); Portageville, Je (Kngt); Ithaca, Je–Jl (Kngt), type locality; Four Mile, Jl (Kngt); Bear Mt., Jl, *Schott*; Ft. Montgomery, Je, *Schott* (Kngt); White Plains, Je, *Bno*, Hartsdale, Jl (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt); Wading R., Je, *Ds*, Cold Sp. Harb., Jl–Aug, *Parsh* (Kngt). *Quercus alba, Q. rubra, Q. coccinea,* and probably other oaks; reared from Cornus, Castanea, and Viburnum.

L. (Neolygus) ostryae Kngt. Cranberry L., Aug, *Drk* (Kngt); Honeoye Falls, Conesus L., Je (Kngt); Batavia, Je (Kngt), type locality; Portageville, Je–Aug (Kngt); Gowanda, Aug, *EPV* (Kngt); Ithaca, Je–Jl, Four Mile, Jl (Kngt); McLean, Jl, *Kngt*, Sep, *Sib* (Kngt); Stamford, Aug, *EPV* (Kngt). *Ostrya virginiana.*

L. (Neolygus) parrotti Kngt. Geneva, Je, *Parrott* (Kngt), type locality. *Viburnum sterilis* and *V. opulus.*

L. (Neolygus) parshleyi Kngt. Cranberry L., Jl, *Drk* (Kngt).

L. (Neolygus) quercalbae Kngt. Batavia, Jl (Kngt); Conesus L., Portageville, Je (Kngt); Ithaca, Je–Jl (Kngt), type locality; Four Mile, Jl (Kngt); White Plains, Je, *Bno* (Kngt); **SI**, Je, *Ds* (Kngt). *Quercus alba.*

L. (Neolygus) semivittatus Kngt. Conesus L., Portageville, Je (Kngt); Ithaca, Je (Kngt), type locality; **LI:** Pinelawn, Je, *Ols* (Kngt). *Quercus alba.*

L. (Neolygus) tiliae Kngt. Batavia, Je–Jl (Kngt); Conesus L., Jl, Byron, Je, Portageville, Je (Kngt), type locality; Hamburg, Spring Brook, Je–Jl, *EPV* (Kngt); Wyoming, Je (Kngt); Honeoye Falls, Je (Kngt); Elma, Aug (EPV); Four Mile, Jl, McLean, Jl, Ithaca, Je (Kngt). *Tilia americana.*

L. (Neolygus) univittatus Kngt. Portageville, Je (Kngt), type locality; Ithaca, Je–Jl, *Kngt&Wellhouse* (Kngt); Ringwood, Je (Kngt). Crataegus.

L. (Neolygus) viburni Kngt. Sodus Pt., Aug, *Buys* (Kngt); Batavia, Je–Jl (Kngt), type locality; Portageville, Je, Aug (Kngt); Wyoming Co, Jl (Kngt); Ithaca, Je (Kngt). *Viburnum lentago.*

L. (Neolygus) vitticollis Reut. Honeoye Falls, Je (Kngt); Batavia, Je (Kngt); Colden, Jl, E. Aurora, Je, Gowanda, Aug (EPV); Four Mile, Jl (Kngt); McLean, Je–Jl, *MacG* (Kngt); Ithaca, Jl, Ringwood, Je (Kngt); White Plains, Je, *Bno* (Kngt); **LI:** Bay Shore, Jl, *Ols*, Orient, Jl, *Ds* (Kngt). *Acer saccharum* and *A. rubrum.*

DICHROOSCYTUS Fieber

D. elegans Uhl. Batavia, Je (Kngt); Buffalo, Je (EPV); Portageville, Je (Kngt); Taughannock, Jl (Kngt); White Plains, *Bno* (Kngt); Mosholu (Heid). Red cedar (*Juniperus virginiana*) and white cedar (*Thuja occidentalis*).

D. rufipennis Fall. Ithaca, Je–Jl (Kngt). *Pinus sylvestris.*

D. suspectus Reut. Wilmington, Jl, *Ds* (Kngt); Ithaca, Je (Kngt). *Pinus resinosa.*

D. viridicans Kngt. Taughannock, Jl (Kngt); Saugerties, Jl, *Brb* (Kngt); White Plains, Jl, *Bno* (Kngt), type locality; **LI**: Lloyds Neck, Jl, *Ds* (Kngt); Cold Sp. Harb., Jl, *Parsh, Bno* (Kngt). *Juniperus virginiana.*

POLYMERUS Hahn

P. basalis Reut. Batavia, Je–Sep (Kngt); Buffalo, Je–Sep (EPV); Wyoming Co, Je (Kngt); Ithaca, Jl–Aug (Kngt–CU); McLean, Jl, *Sib* (Kngt); Ithaca, Four Mile, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); White Plains, Je, *Bno* (Kngt); Mosholu (Heid); Central Pk., NYC, Sep, *Ds* (Kngt); **LI**, Sep, *Ds* (Kngt). Dog fennel (Anthemis).

P. fulvipes Kngt. Four Mile, Jl (Kngt), type locality; Grand View, Je, *Brb* (Kngt); **LI**: Bay Shore, Jl, *Ols*, Pinelawn, Je, *Ds* (Kngt).

P. opacus Kngt. Wanakena, Jl–Aug, *Drk* (Kngt); McLean Bogs, Jl (Kngt), type locality. *Aster umbellatus.*

P. punctipes Kngt. Cranberry L., Jl, *Drk* (Kngt); Four Mile, Jl (Kngt), type locality. *Lysimachia quadrifolia.*

P. unifasciatus var. **lateralis** Hahn. Wilmington, Aug (EPV); Wanakena, Cranberry L., Jl, *Drk* (Kngt). *Galium boreale.*

P. brevirostris Kngt. Lancaster, Jl, *EPV* (Kngt).

P. venaticus Uhl. Cranberry L., Je, Wanakena, Jl–Aug, *Drk* (Kngt); Niagara Falls, Aug, Buffalo, Je, Elma, Je, Hamburg, Jl, Lancaster, Je (EPV); Batavia, Je–Aug (Kngt); Wyoming, Je (Kngt); Ithaca, Je–Jl, Four Mile, Jl (Kngt); White Plains, Je–Jl, *Bno* (Kngt); **SI**, Je, *Ds* (Kngt); **LI**: Maspeth, Je, *Ols* (Kngt). *Solidago altissima.*

POECILOCAPSUS Reuter

P. lineatus Fab. Cranberry L., Jl, Wanakena, Jl, *Drk* (Kngt); L. Placid, Aug (EPV); Fairmount (Sling); Walworth, *Yeomans* (Felt); Wayne Co, Jl (Kngt); Batavia, Je–Jl (Kngt, Lint); Buffalo, Je (EPV, Sling); Portageville, Je (Kngt); Hamburg, Je–Jl (EPV); S. Byron (Lint); Geneva (Sling); Otto, Jl, *Comst* (Uhl); Peruville, Utica, Salem, Albany (Sling); Ithaca, Je–Jl (Sling, Kngt–CU); Enfield Glen, Aug, *Buys* (Kngt); Clayville, Je, *Buys* (Kngt); Four Mile, Jl (Kngt); Oliverea, Je, *Ds* (Kngt); Hartsdale, Je, White Plains, Je, *Bno* (Kngt); Mosholu (Heid); **SI**, Je, *Ds* (Kngt); **LI**: Wyandanch, Jl, *Ds* (Kngt). A large number of herbaceous plants, but especially Rumex; occasionally a pest on currant bushes.

HORCIAS Distant

H. dislocatus Say. Mt. Whiteface, Jl, *Ds* (Kngt); Cranberry L., Jl, *Drk* (Kngt); Conesus L., Je (Kngt); Portageville, Je (Kngt); McLean, Jl, Ithaca, Je, Four Mile, Jl (Kngt); Catskills, Aug, *Ds* (Kngt); Valhalla, May, *Bno* (Kngt); **LI**, Jl, *Ds* (Kngt). *Smilacina racemosa, Geranium maculatum, Scrophularia leporella,* and occasionally *Caulophyllum thalictroides.*

H. dislocatus var. **affinis** Reut. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Je–Jl (Kngt); Conesus L., Je (Kngt); Buffalo, Colden, Je, Hamburg, Jl (EPV); Portageville, Je (Kngt); Four Mile, Jl, McLean, Jl (Kngt); Ithaca, Je–Jl (Kngt–CU); Sodus Pt., Je, *Buys* (Kngt).

H. dislocatus var. **coccineus** Emmons. Niagara Falls, Je (EPV); Batavia, Je–Jl (Kngt); Ithaca, Je (Kngt).

H. dislocatus var. **flavidus** Kngt. Batavia, Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt), type locality.

H. dislocatus var. **goniphorus** Say. Fulton Co, *Alex* (EPV); Niagara Falls, Colden, Hamburg, Je, Buffalo, Jl (EPV); Sodus Pt., Je, *Buys* (Kngt); Batavia, Je–Jl (Kngt); Portageville, Wyoming, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je, *Ruckes* (Fbs, Kngt–CU); Oliverea, Je, *Ds* (Kngt); White Plains, Jl, *Bno* (Kngt); Mosholu (Heid); **SI:** Arrochar, Je, *Ds* (Kngt).

H. dislocatus var. **limbatellus** Wlk. Wanakena, Aug, *Drk* (Kngt); Batavia, Je–Jl (Kngt); Portageville, Wyoming, Je (Kngt); Four Mile, McLean, Jl (Kngt).

H. dislocatus var. **marginalis** Reut. Gloversville, Je, *Alex* (EPV); Batavia, Jl (Kngt); Hamburg, Jl, Buffalo, Je–Jl (EPV); Portageville, Je (Kngt); Ithaca, Je (Kngt); Four Mile, Ringwood, Jl (Kngt); Oliverea, Je, *Ds* (Kngt).

H. dislocatus var. **nigriclavus** Kngt. Batavia, Je (Kngt); Portageville, Je (Kngt); Four Mile, Jl (Kngt), type locality; Ithaca, Je (Kngt); Ringwood, Jl (Kngt); Bear Mt., Jl, *Schott* (Kngt).

H. dislocatus var. **nigritus** Reut. Portageville, Wyoming, Je (Kngt); Sodus Pt., Je, *Buys* (Kngt); Batavia, Je–Jl (Kngt); Four Mile, Jl (Kngt); Ithaca, McLean, Jl (Kngt); Catskills, Oliverea, Je, *Ds* (Kngt); Pine I., Je, *Ds* (Kngt); Mosholu (Heid).

H. dislocatus var. **pallipes** VanD. Niagara Falls, Hamburg, Je (EPV); Batavia, Je–Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt).

H. dislocatus var. **scutatus** Kngt. Four Mile, Jl (Kngt), type locality.

ADELPHOCORIS Reuter

A. rapidus Say. Adirondacks (EPV); Mt. Whiteface, Aug (Kngt); Cranberry L., Jl, Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Buffalo, Je (EPV); Sodus Pt., Aug, *Buys* (Kngt); Batavia, Je–Sep (Kngt); Wyoming, Sep, Portageville, Je (Kngt); Otto, Four Mile, Jl (Kngt); Enfield Glen, Aug, *Buys* (Kngt); Ithaca, Jl–Aug, *Comst* (Uhl); White Plains, Je–Jl, *Bno* (Kngt); **LI:** Gardiners I., Je, *Ds* (Kngt); Schuyler L., Aug, *Buys* (Kngt); Rockaway, Je (Wood); Yaphank, Jl, *Ds* (Kngt).

CALOCORIS Fieber

C. norvegicus Gmelin. White Plains, Je, Sep, *Bno* (Kngt); Mosholu (Heid); **LI:** Maspeth, Je, *Ols* (Kngt). Grasses; also abundant on daisy heads (Bno).

STENOTUS Jakovlev

S. binotatus Fab. Wanakena, Cranberry L., Jl–Aug, *Drk* (Kngt); Batavia, Je–Jl, Portageville, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je (Kngt); White Plains, Je, *Bno* (Kngt); Mosholu (Heid); **LI**, Jl, *Ds* (Kngt). Breeds on *Dactylus glomerata.*

PARACALOCORIS Distant

P. scrupeus Say var. typ. Niagara Falls, Jl, Lockport, Je, Hamburg, Jl (EPV); Batavia, Je–Jl, Portageville, Je (Kngt); Ringwood, Jl (Kngt); Pine I., (Kngt–Brooklyn Museum); West Pt. (Kngt–Brooklyn Museum); **LI:** Bellport (Brooklyn Museum). *Vitis* spp.

P. scrupeus var. **bidens** McAtee. Batavia, Je (Kngt); Ithaca, Je–Jl, Ringwood, Je (Kngt); Bear Mt., Jl, *Schott* (Kngt); Pine I., Je, *Ds* (Kngt).

P. scrupeus var. **cunealis** McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Je–Jl (Kngt), type locality; Ithaca, Je (Kngt).

P. scrupeus var. **lucidus** McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Jl (Kngt), type locality.

P. scrupeus var. **nubilus** McAtee. Portageville, Je (Kngt), type locality.

P. scrupeus var. **par** McAtee. Rochester Jct., Je, *Leon* (Kngt); Batavia, Je (Kngt); Portageville, Je (Kngt); Ithaca, Je (Kngt), type locality.

P. scrupeus var. **rubidus** McAtee. Batavia, Je (Kngt), type locality; Stony I., Je (Kngt).

P. scrupeus var. **sordidus** McAtee. Batavia, Je (Kngt), type locality.

P. scrupeus var. **triops** McAtee. Pine I., Je, *Ds* (Kngt), type locality; **SI,** Je, *Ds* (Kngt).

P. scrupeus var. **varius** McAtee. Rochester Jct., Je, *Leon* (Kngt); Honeoye Falls, Je (Kngt); Batavia, Je (Kngt), type locality.

P. hawleyi Kngt. Waterville, Jl–Sep, *Hawl* (Kngt), type locality; Hamburg, Jl–Aug (EPV). Cultivated hop.

P. hawleyi var. **ancora** Kngt. Syracuse, Jl, *Basinger,* Waterville, Jl–Aug, *Hawl* (Kngt).

P. hawleyi var. **fissus** McAtee. Waterville, Jl–Aug, *Hawl* (Kngt); **SI,** *Ds* (Kngt).

P. hawleyi var. **pallidulus** McAtee. Rochester Jct., Jl, *Leon* (Kngt); Batavia, Je–Jl (Kngt), type locality. Apple.

P. colon Say. **SI,** Je, *Ds* (Kngt).

P. colon var. **castus** McAtee. Haverstraw, Jl (McAtee); **SI,** Aug, *Ds* (Kngt).

P. colon var. **colonus** McAtee. Lancaster, Aug, *EPV* (Kngt); Haverstraw, Jl (McAtee); **LI:** Wyandanch, Aug, *Ols* (Kngt); Cold Sp. Harb., Aug, *Parsh, Riskel* (Kngt).

P. multisignatus Reut. **LI:** Wading R., Je, *Ds* (Kngt).

GARGANUS Stål

G. fusiformis Say. Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl (Kngt); Buffalo, Jl–Aug, Boston, Aug, Colden, Hamburg, Jl (EPV); Gowanda, Aug (EPV); Ithaca, Jl (Kngt); White Plains, Je–Jl, *Bno* (Kngt); **LI:** Wading R., Jl, *Ds* (Kngt). *Tussilago farfara.*

NEUROCOLPUS Reuter

N. nubilus Say. L. Placid, Aug (EPV); Cranberry L., Jl, *Drk* (Kngt); Fulton Co, *Alex* (EPV); Batavia, Je–Aug (Kngt); Buffalo, Jl–Aug, Colden, Jl, Lancaster, Aug (EPV); Portageville, Aug (Kngt); Gowanda, Aug (EPV); Ithaca, Je–Aug (Ruckes, Kngt–CU); Enfield Glen, Aug, *Buys* (Kngt); Catskills, Aug, *Ds* (Kngt); Ft. Montgomery, Jl, *Schott* (Kngt); Palisades, Mosholu (Heid); NYC, Je (Wood); **SI:** Eltingville, Jl, *Ds* (Kngt); **LI:** Bay Shore, Jl, Maspeth, Jl, *Ols* (Kngt); Hempstead, Sep, *Ols* (Kngt); Montauk, Aug, *Ds* (Kngt). *Cephalanthus occidentalis, Rhus* sp., and probably other plants.

PHYTOCORIS Fallén

P. angustulus Reut. Ithaca, Taughannock, Jl (Kngt); McLean, Sep, *Sib* (Kngt); Hartsdale, Jl, *Bno* (Kngt); White Plains, Je, *Bno* (Kngt). *Tsuga canadensis.*

P. antennalis Reut. **SI,** Sep, *Ds* (Kngt); **LI:** Central Pk., Sep, *Ds,* Cold Sp. Harb., Jl, *Parsh* (Kngt); Wyandanch, Aug, Bay Shore, Jl, *Ols* (Kngt).

P. borealis Kngt. Jamestown, Aug, *EPV* (Kngt).

P. brevifurcatus Kngt. Batavia, Jl–Aug (Kngt), type locality.

P. buenoi Kngt. White Plains, Jl, *Bno* (Kngt), type locality; **LI:** Cold Sp. Harb., Jl, *Parsh* (Kngt).

P. caryae Kngt. Batavia, Jl (Kngt), type locality. Carya.

P. confluens Reut. Batavia, Aug (Kngt); Forest Hill, Sep, *Ols* (Kngt); White Plains, Jl, *Bno* (Kngt); **SI:** Arrochar, Jl, *Ds* (Kngt); **LI:** Flushing, Sep, *Ols* (Kngt); Port Washington, Sep, *Ols* (Kngt); Wading R., Je, *Ds* (Kngt). Hickory (Carya).

P. conspurcatus Kngt. Batavia, Aug (Kngt), type locality; Ithaca, Sep (Kngt); White Plains, Jl, *Bno* (Kngt); **LI:** Wyandanch, Aug, *Ols* (Kngt). Bark of Tilia and Acer.

P. corticevivens Kngt. Waterville, Jl, *Hawl* (Kngt); Batavia, Je–Jl (Kngt), type locality; Hartsdale, Jl, *Bno* (Kngt); **SI,** Jl, *Ds* (Kngt). Bark of *Acer saccharum.*

P. cortitectus Kngt. Cranberry L., Jl, *Drk* (Kngt); Batavia, Jl (Kngt), type locality.

P. davisi Kngt. **LI:** Central Pk., Jl, *Ds* (Kngt).

P. depictus Kngt. Batavia, Aug (Kngt), type locality. *Quercus macrocarpa.*

P. diversus Kngt. Madison Barracks, Aug (Kngt), type locality; Mt. Whiteface, Aug (Kngt); Ithaca, Jl, Sep (Kngt); **LI:** Cold Sp. Harb., Aug, *Parsh* (Kngt). *Pinus strobus.*

P. erectus VanD. Wanakena, Aug, *Drk* (Kngt); Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Cattaraugus Co, Aug (Kngt); Salamanca, Jl (EPV), type locality; McLean, Aug, *Sib* (Kngt).

P. eximius Reut. Cranberry L., Aug, *Drk, Htly* (Kngt); Batavia, Jl–Aug (Kngt); Portageville, Aug (Kngt); Ithaca, McLean, Jl (Kngt); **LI:** Cold Sp. Harb., Jl–Aug, *Parsh, Bno* (Kngt); Yaphank, Jl–Aug, Smithtown, Aug, *Ds* (Kngt); Wyandanch, Aug, *Ols* (Kngt).

P. fulvus Kngt. Cranberry L., Wanakena, Aug, *Drk* (Kngt); Ithaca, Jl (Kngt), type locality.

P. fumatus Reut. Ft. Montgomery, Je, *Schott* (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt); Wading R., Je, Yaphank, Jl, *Ds* (Kngt).

P. infuscatus Reut. Niagara Falls, Boston, Aug (EPV); Batavia, Jl (Kngt); Conesus L., Jl (Kngt); Gowanda, Aug (EPV); Ithaca, Jl (Kngt); White Plains, Jl, *Bno* (Kngt). Carya.

P. lacunosus Kngt. Cranberry L., Aug, *Drk* (Kngt); Batavia, Jl (Kngt); McLean, Jl (Kngt), type locality.

P. lasiomerus Reut. Cranberry L., Aug, *Drk, Htly* (Kngt); Long L., *Horv* (Reut); Wanakena, Aug, *Drk* (Kngt); Fulton Co, *Alex* (Kngt); Cold R., *Horv* (Reut); Honeoye Falls, Aug (Kngt); Batavia, Jl–Aug (Kngt).

P. minutulus Reut. **LI:** Cold Sp. Harb., Aug, *Parsh* (Kngt); Maspeth, Sep, *Ols* (Kngt).

P. neglectus Kngt. Batavia, Je–Sep (Kngt), type locality; Wyoming Co, Je (Kngt); Four Mile, Jl (Kngt); Ithaca, Je–Jl (Kngt); Greene Co, Jl (Kngt);

Ft. Montgomery, Sep, *Schott* (Kngt); White Plains, Aug, *Bno* (Kngt); **LI:** Amagansett, Je, *Ds* (Kngt). Apple trees.

P. obtectus Kngt. Honeoye Falls, Je (Kngt), type locality.

P. olseni Kngt. **LI:** Bay Shore, Yaphank, Jl, *Ols* (Kngt); Wyandanch, Aug, *Ols* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt).

P. onustus VanD. Mt. Whiteface, Aug (Kngt); Batavia, Jl (Kngt); Portageville, Aug (Kngt); Boston, Aug (EPV); Salamanca, Jl (EPV), type locality; Four Mile, Jl (Kngt); Ithaca, Jl (Kngt). Bark of hickory trees.

P. pallidicornis Reut. Mt. Whiteface, Aug (Kngt); Fulton Co, Sep, *Alex* (EPV); Cranberry L., Wanakena, Aug, *Drk* (Kngt).

P. pinicola Kngt. Batavia, Jl (Kngt), type locality; Taughannock, Jl (Kngt); **LI:** Bay Shore, Jl, *Ols* (Kngt); Promised Land, Sep, *Ds* (Kngt); Cold Sp. Harb., Aug, *Parsh* (Kngt); Wyandanch, Jl, *Ds* (Kngt); Amagansett, Sep, *Ds*, Coram, *Ds* (Kngt). *Pinus sylvestris, P. resinosa.*

P. puella Reut. "NY" (Reut); Ithaca, Sep (Kngt); White Plains, Je, *Bno* (Kngt); **LI:** Yaphank, Jl, *Ds, Ols* (Kngt); Bay Shore, Aug–Sep, *Ols* (Kngt); Cold Sp. Harb., Jl, *Parsh* (Kngt); Wyandanch, Aug, *Ols* (Kngt).

P. quercicola Kngt. Batavia, Aug (Kngt), type locality; **LI:** Fire I., Aug, *Ds* (Kngt). *Quercus macrocarpa.*

P. rubropictus Kngt. Wanakena, Aug, *Drk* (Kngt), type locality.

P. salicis Kngt. Cranberry L., Jl–Aug, *Drk, Htly* (Kngt); Wanakena, Jl, *Drk* (Kngt); Honeoye Falls, Aug (Kngt); Batavia, Jl–Aug (Kngt), type locality; Ithaca, Je–Jl, McLean, Jl (Kngt); Ringwood, Jl (Kngt); W. Nyack, Aug, *Ols* (Kngt); **LI:** Cold Sp. Harb., Aug, *Bno* (Kngt); Orient, Jl, *Ds* (Kngt). Salix.

P. spicatus Kngt. Batavia, Jl–Aug (Kngt), type locality; Four Mile, Jl (Kngt).

P. sulcatus Kngt. Madison Barracks, Aug (Kngt); Batavia, Aug (Kngt), type locality; Ithaca, Jl (Kngt); **SI,** Jl, *Ds* (Kngt).

P. tibialis Reut. Elma, Aug, Hamburg, Jl–Sep, Lancaster, Aug, Colden, Aug, Buffalo, Jl–Aug (EPV); Batavia, Jl–Aug (Kngt); Portageville, Aug (Kngt); Salamanca, Jl (EPV); Ithaca, Jl, *Bno* (Kngt–CU); McLean, Jl–Aug, *Sib* (*Kngt*); Saugerties, Jl–Aug, *Brb* (Kngt); White Plains, Jl–Sep, *Bno* (Kngt); **LI:** Riverhead, Aug, *Ds* (Kngt); Flushing, Aug, *Ds* (Kngt); Cold Sp. Harb., Jl, *Butler, Bno, Parsh* (Kngt).

P. tuberculatus Kngt. Four Mile, Jl (Kngt), type locality; Pine I., Je, *Ds* (Kngt).

P. uniformis Kngt. **LI:** Wyandanch, Aug, *Ols* (Kngt), type locality; Bear Mt., Aug, *Schott* (Kngt); Yaphank, Aug, *Ds,* Cold Sp. Harb., Aug, *Bno* (Kngt).

P. venustus Kngt. Syracuse, Sep, *Drk* (Kngt).

P. vittatus Reut. L. Placid, Aug (*EPV*), type locality; Lewis, Aug (Kngt). *Ribes cynosbati.*

PARAXENETUS Reuter

P. guttulatus Uhl. W. Nyack, Aug, *Bno* (Kngt); **LI:** Cold Sp. Harb., Aug, *Brb* (Kngt); Aqueduct, Jl, *Ds* (Kngt).

BARBERIELLA Poppius

B. apicalis Kngt. **SI,** Jl, *Ds* (Kngt), type locality; **LI:** Central Pk., Aug, *Ds* (Kngt).

FAMILY **ISOMETOPIDAE** Fieber

Compiled by HARRY H. KNIGHT

CORTICORIS McAtee and Malloch

C. pulchellus (Heid.). **LI:** Sea Cliff (*Heid*).

HEIDEMANNIA Uhler

H. cixiiformis Uhler. Batavia, Jl, *Kngt.* During July of 1913 and 1914, twenty-seven female specimens were found in scraping rough bark from the trunks of apple trees; the bugs appeared to be associated with psocids under the bark.

FAMILY **CRYPTOSTEMATIDAE**

(*Dipsocoridae, Schizopteridae*)

CERATOCOMBUS Signoret

—— **C.** (*Xylonannus* Reut.) **vagans** McAtee & Mall. Keene Val., Je, *Not* (McAtee & Mall). This species occurs in damp, rotten wood (Brb).

FAMILY **HYDROMETRIDAE**

Compiled by J. R. DE LA TORRE-BUENO

HYDROMETRA Lamarck

1281 **H. martini** Kirk. Ithaca, May–Aug (Bno, MacG–CU); McLean, Jl 14 (Bno); White Plains, Mar–Aug, in great abundance (Bno); Van Cort. Pk., Ap, Jl (Bno); **SI**, May, *Bno & Ds* (Bno), Ap 11 in plowed field, *Ds* (Bno); **LI:** Cold Sp. Harb., Jl (Bno).

FAMILY **GERRIDAE**

Compiled by J. R. DE LA TORRE-BUENO

SUBFAMILY **GERRINAE**

GERRIS Fabricius

1283 **G. remigis** Say. Mt. Whiteface, Aug (EPV); Axton, Je (M&H); Old Forge (Bno); Cranberry L. (O&D); Caledonia Cr., Dec (Lint); Colden, Gowanda, Jl–Aug (EPV); Ithaca, Jl–Aug (CU); Fly Cr., Aug (*Bno*); White Plains, Scarsdale, Port Chester, Feb–late Nov (*Bno*); Mosholu, Van Cort. Pk., Central Pk., NYC, Ap–Je (*Bno*); **SI**, Feb–Mar (Bno), Jl (*Ols*); **LI:** Flushing, Mar, Hempstead, Jl, (*Ols*); Cold Sp. Harb., Jl, in brackish stream (Bno); Yaphank, Sep, *Eng* (Bno).

1285 **G. conformis** Uhl. Ithaca, Aug (CU); Croton-on-Hudson, Aug (Ols); White Plains, Je–Jl (*Bno*); Mamaroneck, May (*Bno*); **LI:** Cold Sp. Harb., Jl, in brackish stream (*Bno*).

1288 **G. marginatus** Say. Old Forge, Je–Jl (CU); Cranberry L. (O&D); Fulton, Je, *Mary Hill* (CU); Otto (CU); Buffalo, Colden, Je–Sep (*EPV*); Ithaca, May–Sep (CU); Carmel, Aug (Bno); White Plains, Mar and throughout the year, adults in spring and fall (*Bno*); Van Cort. Pk., Central Pk., NYC, Mar–Oct (Bno); **SI**, Mar–Sep (*Bno, Ols*); **LI:** Maspeth, Flushing, Newtown Hgts., Hempstead, Lynbrook, Mar–Nov (*Ols*); Cold Sp. Harb., Jl, in brackish stream (Bno); Yaphank, Sep, *Eng* (Bno).

1288½ **G. argenticollis** Parsh. Cranberry L. (O&D); White Plains, Mar–May (*Bno*); Pleasantville, Sep (*Bno*).

1289 **G. buenoi** Kirk. Cranberry L. (O&D); Ithaca, Aug (CU); McLean, Jl, *Kngt* (Bno); White Plains, Mar–Nov, adults in spring and fall, nymphs in early summer (*Bno*); Van Cort. Pk., Oct (*Bno*); **LI:** Queens, Newtown Hgts., Yaphank, Mar–Jl (*Ols*); Cold Sp. Harb., Jl (*Bno*).

1290 **G. canaliculatus** Say. Putnam Co, Sep (*Bno*); White Plains, May–Nov (*Bno*); Van Cort, Pk., Central Pk., NYC, Mar–Oct (*Bno*); **SI,** May (*Bno*); **LI:** Rockaway Beach, Je (*Ols*); Cold Sp. Harb., Jl (*Bno*).

—— **G. insperatus** D. & H. **LI:** Cold Sp. Harb., *Brb* (Drk&Hottes).

LIMNOPORUS Stål

1291 **L. rufoscutellatus** Latr. Old Forge, Aug (CU); Buffalo, Hamburg, Jl (*EPV*); Ithaca, Jl–Sep (Bno); Enfield, Sep (CU); Putnam Co, Sep (*Bno*); White Plains, May–Jl and off and on throughout the year (*Bno*); Van Cort. Pk., Je (*Bno*); **LI:** Jamaica, Feb, *Dow* (Bno).

SUBFAMILY HALOBATINAE

METROBATES Uhler

1295 **M. hesperius** Uhl. Franklin Co (EPV); Fulton, *Alex* (Bno); Cranberry L. (O&D); Ithaca, Jl–Aug (CU); L. Mahopac, both adults and nymphs in enormous numbers, Sep 1 (*Bno*).

TREPOBATES Uhler

1296 **T. pictus** H.-S. Cranberry L. (O&D); Hamburg, Jl (EPV); Ithaca, Je–Sep (CU); L. Mahopac, Sep (Bno); Carmel, Aug (Bno); White Plains, Oct, adults generally found in late summer and early fall (Bno); **LI:** Cold Sp. Harb., Jl (Bno); Yaphank, Sep, *Eng* (Bno).

RHEUMATOBATES Bergroth

1297 **R. rileyi** Bergr. Cranberry L. (O&D); Ithaca, Jl–Aug (CU); White Plains, Aug–Oct (*Bno*); **LI:** Prospect Pk., Brooklyn, Aug, *Ds* (Ols); High Hill, Aug (*Bno*); Cold Sp. Harb., Jl, in brackish stream (*Bno*); Flatbush, *Zab* (Heid); Yaphank, Sep (*Bno, Ols*).

FAMILY VELIIDAE

Compiled by J. R. DE LA TORRE-BUENO

MICROVELIA Westwood

1303 **M. borealis** Bno. Cranberry L. (O&D); Carmel, Aug (Bno); Tarrytown, Je (Bno); White Plains, throughout the year (Bno); **SI,** May (Bno), Aug (Ols); **LI:** Cold Sp. Harb., Jl (Bno).

1304 **M. albonotata** Champ. Fly Cr., Cooperstown, Aug (Bno); Valhalla, Oct, Armonk, Je (Bno); White Plains, May, winged form, Sep–Oct (Bno); **LI:** Cold Sp. Harb., Jl (Bno).

1306½ **M. fontinalis** Bno. White Plains, Mar, May, Sep, Dec, but most abundant in spring in woodlands (Bno).

—— **M. buenoi** Drk. Cranberry L. (O&D); White Plains, May–Sep, Feb 22, from among leaves at bottom of a pond, in great abundance on Mar 11, Nov 4, sluggish (Bno).

1307 **M. americana** Uhl. Cranberry L. (O&D); Adirondacks (*EPV*); Colden, Pipe Cr., Hamburg, E. Aurora, May–Aug (EPV); Fly Cr., Otsego Co, Aug (Bno); Tarrytown, Je, White Plains, the commonest species, Aug, Scarsdale, Sep, Port Chester, Aug, Armonk, Je (Bno); Bronx, Central Pk., NYC, Mar, Sep (Bno); **SI**, Mar (Bno); **LI**: Flushing, North Beach I., Yaphank, Mar–Oct (Bno, Ols).

—— **M. heinei** Drk. White Plains, May–Oct (Bno).

RHAGOVELIA Mayr

1309 **R. obesa** Uhl. Ausable R., Aug (EPV); L. Placid, Aug (EPV); Cranberry L. (O&D); Niagara Falls, Colden, Hamburg, Jl–Aug (*EPV*); Ithaca, Jl–Aug (CU); Fly Cr., Otsego Co, Aug (Bno); Tarrytown, White Plains, Armonk, in favorable situations from early spring to late fall (Bno); **SI**, Aug (Ols); **LI**: Yaphank, Sep (Bno).

FAMILY SALDIDAE

Compiled by J. R. DE LA TORRE-BUENO

PENTACORA Reuter

1316 **P. signoretii** Guér. Dutchess Co, Je, *Whiting* (Bno); Rye, Jl, nymphs and adults (Bno); **LI**: Long Beach, Aug, *Schott* (Bno, Ols); Freeport, *Dow* (Ols); Gilgo Beach, *Whiting* (Bno).

1317 **P. hirta** Uhl. Rye, Jl–Aug, Mamaroneck, Oct (Bno); **LI**: Gilgo Beach, Jl (Bno); Rockaway Beach, Sep, Cold Sp. Harb., Jl (Bno).

1318 **P. ligata** Say. Axton, Je (M&H); Cranberry L., on stones (O&D); Thousand Isls., Sep (CU); Batavia, Sep, Portageville, Je (*Kngt*); shores of L. Erie, Niagara R., Jl–Sep (*EPV*); Buffalo, Oct (*EPV*); Ithaca, Je–Sep (CU); Dutchess Co, *Whiting*, Je (Bno); Ft. Montgomery, Je, *Schott* (Bno); White Plains, Jl, Sep (*Bno*).

1334 **P. sphacelata** Uhl. (*Saldula*). Rye, Jl–Aug (*Bno*); **LI**: Gilgo Beach, Jl, *Whiting* (Bno); Babylon, Aug (Bno); Rockaway Beach, Sea Cliff, Bay Shore, Je–Jl (*Ols*).

SALDA Linnaeus

1320 **S. littoralis** L. Pipe Cr., Jl (*EPV*).

1321 1322 **S. coriacea** Uhl. (*anthracina* Uhl., teste Bno.). Wallface Mt., Jl, *Not* (Bno); Cranberry L. (O&D); Oakfield, Je, *Not* (Bno); Batavia, Je, *Kngt* (Bno); Hamburg, Jl (*EPV*); Ithaca, Jl (CU); Ft. Hunter, May, *Not* (Bno); White Plains, Jl (*Bno*).

SALDULA Van Duzee

1323 **S. major** Prov. Wallface Mt., Meadow Pond, Essex Co, *Not* (Bno); Cranberry L. (O&D); Fulton Co, *Alex* (Bno); Axton, Je (M&H); Buffalo, Hamburg, Je–Aug (EPV); Ithaca, Jl (CU); White Plains, Jl–Sep (Bno); Mt. Kisco, Je (Bno); **LI**: Je (Bno); Rockaway Beach, Je, *Shoe* (Ols); Bay Shore, Je (*Ols*).

1324 **S. confluenta** Say. Fulton Co, *Alex* (Bno); Cranberry L. (O&D); Lancaster, Je, *MCV* (EPV); White Plains, Je–Sep (Bno); **LI**: Yaphank, Jl, *Ols* (Bno).

1325 **S. orbiculata** Uhl. Cranberry L. (O&D); Buffalo (*EPV*); White Plains, Je–Jl (*Bno*); Mosholu, Je–Oct (*Bno*); **LI**: Amityville, Jl (*Bno*).

1328 **S. interstitialis** Say (*pallipes* auctt. Am.). Axton, Je (M&H); L. Placid, Aug (*EPV*); Cranberry L. (O&D); Batavia, Aug, *Kngt* (Bno); Buffalo, Hamburg, Colden, May–Oct (*EPV*); Canisteo, Je, *Not* (Bno); Ithaca, Jl–Sep (CU); Carmel, Je–Aug (*Bno*); White Plains, Aug–Oct (*Bno*); Valhalla, Aug (Bno); **LI**: Maspeth, Bay Shore, Jl–Nov (*Ols*); Cold Sp. Harb., Jl (Bno); Rockaway Beach, *Ols* (Bno); Gilgo Beach, Jl (*Bno*); Yaphank, Jl (Bno).

1329 **S. separata** Uhl. Wallface Mt, L. Tear, Indian Pass, Essex Co, Jl, *Not* (Bno); Cranberry L., Jl (O&D); Oakfield, Je, *Not* (Bno).

1330 **S. reperta** Uhl. Wallface Mt., Jl, *Not* (Bno); Cranberry L. (O&D); Buffalo, Colden, Jl–Sep (*EPV*); White Plains, May (*Bno*); Scarsdale, Sep (*Bno*); Mosholu, Mar–Jl (*Bno*); **SI**, Jl (*Bno*).

1331 **S. xanthochila** Fieb. Elma, Je (EPV).

1335 **S. opacula** Zett. Cranberry L., Jl (*Drk*); White Plains, by sifting, Mar–Sep (Bno); **LI**: North Beach, Jan 14, *Schott* (Bno).

1341 **S. saltatoria** L. White Plains, Mar 22–23, active, Dec 2, sifted from drifted leaves about tussocks in swamp (*Bno*); Valhalla, May (*Bno*); **LI**: Huntington, Feb 10, *Schott* (Bno).

MICRACANTHIA Reuter

1342 **M. humilis** Say. Wallface Mt., Jl, *Not* (Bno); Cranberry L. (O&D); Rochester, Je (CU); Buffalo, Hamburg, Gowanda, May–Aug (*EPV*); Canisteo, Je, *Not* (Bno); Nichols, May, *Not* (Bno); White Plains, Valhalla, Mt. Kisco, and Tarrytown, throughout spring and summer (*Bno*); W. Nyack, Je (*Ols*); Mosholu, Jl (*Bno*); **LI**: Sea Cliff (CU); Rockaway Beach, Bay Shore, May–Je (*Ols*); Cold Sp. Harb., Jl (Bno); Amityville, Gilgo Beach, Jl (*Bno*); Yaphank, Jl (*Bno*), Je (*Ols*).

LAMPRACANTHIA Reuter

1345 **L. crassicornis** Uhl. Ithaca (Hgfd).

CHARTOSCIRTA Stål

—— **C. (Chartolampra) cursitans** Bno. L. Tear, Jl 27, *Not* (Bno), type locality.

FAMILY NOTONECTIDAE

Compiled by J. R. DE LA TORRE-BUENO

SUBFAMILY NOTONECTINAE

NOTONECTA Linnaeus

1349 **N. irrorata** Uhl. Keene Val. (Bno); Buffalo, Colden, Jl (*EPV*); Ithaca, Aug (CU); White Plains, Sep–Nov (Bno); Bronx Pk., Van Cort. Pk., Ap–Sep (Bno); NYC (Brb); **SI**, Aug–Oct (Bno); **LI**: Forest Pk., Nov (Bno); Queens, Flushing, Maspeth, Mar–Nov (*Ols*); Cold Sp. Harb., Jl (*Bno*).

1350 **N. uhleri** Kirk. Putnam Co, Sep (Bno); White Plains, Sep–Nov (*Bno*); Van Cort. Pk., Ap (*Bno*); **LI**: Flushing, Aug–Oct, *Schott* (Ols).

1351 **N. variabilis** Fieb. Cranberry L., Jl–Aug (O&D); Keene Val., May, *Not* (Bno); Lowville, Je, *Not* (Bno); Ithaca, Aug (Bno); Tivoli, May, *Not* (Bno); White Plains, Ap–Sep, Nov (Bno); Valhalla, May (Bno); Van Cort. Pk., Mar–Nov (Bno); Central Pk., NYC, Ap (*Bno*); **SI:** May (Bno); Concord, Mar, *Ang* (Ols); **LI:** Flushing (Ols), Yaphank, Jl–Sep (Ols, Bno).

1352 **N. undulata** Say. Mt. Marcy, Jl, *Not* (Bno); Keene Val., May, *Not* (Bno); L. Placid (*EPV*); Cranberry L., Jl (O&D); Buffalo and vic., Jl–Aug (*EPV*); Ithaca, Je–Nov (CU); Danby, Spencer, Aug, *Comst* (CU); Fly Cr., Otsego Co, Aug (Bno); Albany (NYS); Tivoli, May, *Not* (Bno); Putnam Co (Bno); White Plains, Feb–Dec (Bno); Bronx Pk., Central Pk., NYC, *Bno*, Mar–Sep (Bno); **SI:** Oct–Nov (Bno); Concord, Mar, *Ang* (Ols); **LI:** Forest Pk., Nov (Bno); Flushing, Maspeth, Sep–Nov (Bno); Cold Sp. Harb., Jl (*Bno*); Yaphank (Bno & Eng).

1352c **N. undulata** var. **maculata** Fieb. Central Pk., NYC, Mar (Bno); **SI,** in autumn, *Bno&Ds* (Bno).

1352e **N. undulata** var. **latona** Kirk. Gowanda, Aug (*EPV*); **SI,** Oct–Nov (Bno).

1354 **N. raleighi** Bno. White Plains, Mar 21, at thawed edges of a pond (Bno).

1357 **N. insulata** Kby. Mt. Marcy, Jl, *Not* (Bno); Cranberry L., Jl (O&D); Buffalo, Gowanda, Jl–Aug (*EPV*); Albany (Bno); White Plains, Ap–Nov (*Bno*), Mar (Ols); NYC, *Brb* (Bno); **SI,** Sep, *Ds* (*Bno*); **LI:** Maspeth, Mar–Nov (Ols).

BUENOA Kirkaldy

1362 **B. margaritacea** Bno. Adirondacks (*EPV*); Cranberry L. (O&D); White Plains, Feb–Dec (Bno); Pleasantville, Sep 9 (Bno); **LI:** Flushing, Huntington, May–Aug (Ols).

1363 **B. platycnemis** Fieb. "NY" (VanD. Cat.).

1364 **B. elegans** Fieb. White Plains, Aug–Sep (*Bno*); Pleasantville, Sep–Nov (*Bno*); Van Cort. Pk. (*Bno*); **SI,** Sep (*Bno*); **LI:** Cold Sp. Harb., Jl (*Bno*); Yaphank, Sep, *Eng* (*Bno*).

SUBFAMILY PLEINAE

PLEA Leach

1365 **P. striola** Fieb. Rochester, *Moore* (EPV); Ithaca, May–Jl (CU); White Plains, Oct, etc. (Bno); Hartsdale, Aug (*Bno*); Van Cort. Pk., Ap–Sep (Bno); **SI,** May–Oct, *Ds* (*Bno*); **LI:** Cold Sp. Harb., Jl (*Bno*); Maspeth (*Ols*); Yaphank, Jl (Ols), Sep, *Eng* (*Bno*).

FAMILY NAUCORIDAE

Compiled by J. R. DE LA TORRE-BUENO

PELOCORIS Stål

1366 **P. femoratus** Pal. de Beauv. Baldwinsville, Sep, *Pettit* (CU); Carmel, Aug (*Bno*); White Plains, May–Nov (*Bno*); Van Cort. Pk., Mar–Jl (*Bno*); **SI,** May–Oct (*Bno*), Je (Ols); **LI:** Maspeth, Je, Rockaway Beach, Nov (*Ols*); Yaphank, Jl (*Ols*); Sep, *Eng* (*Bno*).

FAMILY **NEPIDAE**

Compiled by J. R. DE LA TORRE-BUENO

NEPA Linnaeus

1379 **N. apiculata** Uhl. Fulton Co, *Alex* (Bno); Lancaster (*EPV*); Ithaca, Aug (CU); White Plains, Aug 16, nymph (*Bno*); Valhalla, Oct 2 (*Bno*); Mt. Vernon, *Eng* (*Bno*); Yonkers, *Ang* (Ols); Van Cort. Pk., *Ang* (Ols); **SI**, *Ds* (Bno); **LI:** Flushing, *FWinters* (Ols); Cold Sp. Harb., Jl (*Bno*).

RANATRA Fabricius

1381 **R. kirkaldyi** Bno. (*fusca* Am. auctt. not Pal. de Beauv.). E. Aurora, Oct (EPV); Ithaca, Jl–Aug (CU); L. Mahopac (*Bno*), type locality; Central Pk., NYC (Bno).

1383 **R. americana** Montd. Cranberry L., Jl (O&D); Squaw I., Niagara Falls, Sep (*EPV*); Lancaster (*EPV*); Ithaca, May–Aug (CU); White Plains, from early spring to late fall (Bno); Van Cort. Pk., Central Pk., NYC, Mar (Bno); **LI:** Forest Pk., Nov 7 (*Bno*).

1385 **R. protensa** Montd. Ithaca, Nov (CU); Central Pk., NYC (Bno).

FAMILY **BELOSTOMATIDAE**

Compiled by J. R. DE LA TORRE-BUENO

BENACUS Stål

1387 **B. griseus** Say. Cranberry L. and vic. (O&D); Buffalo, Hamburg, Ap–Sep (*EPV*); Ithaca, May–Jl (CU); White Plains, May–Sep (Bno); Tarrytown, May (Lint–NYS); NYC, Jl (*Bno,* Ols); **SI:** New Brighton, Mar (Ols); **LI:** Maspeth, Oct (*Ols*).

LETHOCERUS Mayr

1388 **L. americanus** Leidy. Adirondacks (Felt); Lockport, Jl (Lint–NYS); Buffalo, Hamburg, Ap (*EPV*); Caledonia Cr. (Lint); Johnstown, Ap (NYS); Ithaca, May–Jl (CU); Albany, Ap–Sep (NYS); E. Chatham, Je (Lint–NYS); Kingston (Lint–NYS); Stuyvesant Falls (NYS); White Plains, May–Oct (Bno).

1389 **L. obscurus** Duf. Hamburg, Mar (*EPV*); White Plains, Ap–Oct, on Nov 4, out of water on vegetation and torpid (*Bno*); Mt. Vernon, Je (*Bno*); **SI:** New Brighton, Mar (Ols).

BELOSTOMA Latreille

1393 **B. flumineum** Say. Cranberry L. and vic. (O&D); Buffalo, Sep (EPV–NYS); Black Rock Harb., Sep (*EPV*); Mooers, Sep, *Not* (Ols–AM); Ithaca, Aug–Sep (CU); L. Mahopac, Mar (Bno); White Plains, Jl–Nov (Bno); Yonkers (Ols); Van Cort. Pk., Bronx Pk., Mar–Sep (Bno); **SI**, Mar (Ols), Aug–Oct (Bno); **LI:** Flushing, Rockaway Beach, Maspeth, Mar–Nov (Ols); Forest Pk., Yaphank, Jl–Nov (Bno).

1394 **B. lutarium** Stål. Yaphank, Jl, Nov (Bno).

1401 **B. testaceum** Leidy. "NY" (VanD. Cat.).

FAMILY GELASTOCORIDAE

Compiled by J. R. DE LA TORRE-BUENO

GELASTOCORIS Kirkaldy

1407 **G. oculatus** Fab. **SI,** *Ds* (Bno).

FAMILY OCHTERIDAE

Compiled by J. R. DE LA TORRE-BUENO

OCHTERUS Latreille

1412 **O. americanus** Uhl. White Plains, May–Sep (Bno); Mosholu, May (Bno); **SI,** *Ds* (Bno); **LI:** Jamaica, Jl, Huntington, Jl, *Schott* (Ols).

1413 **O. banksi** Brb. White Plains, Je–Jl (Bno).

FAMILY CORIXIDAE

Compiled by J. R. DE LA TORRE-BUENO

CALLICORIXA White

1416 **C. praeusta** Fieb. Cranberry L., Bean Pond, Beaver Meadow (O&D).

ARCTOCORIXA Wallgren

1422 **A. alternata** Say. White Plains, Mar–Je (Bno); **LI:** Cold Sp. Harb., Jl (Bno); Flushing, Sep–Oct, Maspeth, Dec (Ols).

1424 **A. calva** Say. Ithaca (Plunk); **LI:** Flushing, Mar, *Ols* (Plunk).

—— **A. compressa** Abb. Cranberry L. (O&D).

1427½ **A. dubia** Abb. Ithaca, *Claas* (Hgfd).

1434 **A. harrisii** Uhl. White Plains, Valhalla, Mar, Sep, Nov (Bno); **LI:** Cold Sp. Harb., Jl (Bno).

1437 **A. interrupta** Say. Sodus Bay, Aug, *ACWeed* (Hgfd); Ithaca, Jl–Aug (Hgfd); White Plains, Mar, *Plunk* (Ols); **SI,** Mar (Ols), Jl (Bno); **LI:** Flushing, Aug, *Plunk* (Hgfd); Maspeth, Oct, *Plunk* (Ols).

1438 **A. kennicottii** Uhl. White Plains, Sep–Oct (Bno); Van Cort. Pk., May, Jl (Bno).

1440 **A. laevigata** Uhl. "NY", three specimens (Hgfd).

1442 **A. lineata** Forst. "NY" (VanD. Cat.).

1443½ **A. modesta** Abb. Ithaca, Jl (Bno); White Plains, Nepperhan, Je (Bno).

1444 **A. nitida** Fieb. White Plains, Mar, *Ols* (Plunk); **LI:** Maspeth, Mar, *Ols* (Plunk).

1444¼ **A. ornata** Abb. Ithaca, *Claas* (Hgfd).

1444½ **A. parshleyi** Abb. Ithaca, paratypes.

1445 **A. pectenata** Abb. **LI:** Fire I. Beach, Jl 19, in wash-up (Bno).

—— **A. scabra** Abb. Bean Pond, Cranberry L. (O&D).

—— **A. lobata** Hgfd. **LI** (Hgfd).

—— **A. obliqua** Hgfd. Ithaca, Jl–Aug (Hgfd).

—— **A. vulgaris** Hgfd. Ithaca, Mar–Nov, *Alex*, *Plunk* (Hgfd); White Plains, *Bno* (Hgfd).

PALMACORIXA Abbott

1462 **P. buenoi** Abb. Cranberry L. (O&D); Ithaca, Jl (Bno); Carmel, Aug (Bno); White Plains, Mt. Kisco, Valhalla, May–Sep (Bno); Van Cort. Pk., Je (Bno); Central Pk., NYC, Ap (Bno); **SI**, Aug (Bno); **LI**: Cold Sp. Harb., *Parsh* (Bno).

CORIXA Geoffroy

1465 **C. macrocerops** Kirk. **LI**: Cold Sp. Harb., *Parsh* (Hgfd).
1467 **C. verticalis** Fieb. **LI**: Maspeth, Dec 28, 1907, *Ols* (Plunk).

ORDER HOMOPTERA

The list in the order Homoptera has not had, properly speaking, a general editor, although Mr. E. P. Van Duzee was originally designated as in charge of this order at the time when the preparation of the state list as a whole was first contemplated. Pressure of other duties, and the transferral of Mr. Van Duzee's residence to California, have prevented him from continuing to take the general responsibility. While the Editor-in-Chief has assembled the data for many of the groups, Mr. Van Duzee has done an immense amount of work in making determinations, furnishing records, and correcting synonymy, with the exception of the specialized families Coccidae and Aphiidae, which have been checked over by Messrs. Harold Morrison, and A. C. Baker and P. W. Mason, respectively. Mr. Van Duzee has been kind enough to look over the proof also.

The following families of this order are especially well represented in the State, due to the collecting and study by the specialists mentioned in connection with them: Cicadidae, Wm. T. Davis; Membracidae, W. D. Funkhouser, L. B. Woodruff, C. E. Olsen, and J. L. Buys; Cicadellidae, Herbert Osborn, D. M. DeLong, C. E. Olsen, and J. L. Buys; and for all three of these groups, of course, E. P. Van Duzee.

FAMILY CICADIDAE [18]

Compiled by WILLIAM T. DAVIS

TIBICEN Latreille

1473 **T. linnei** (Smith & Grossbeck). Clyde, Aug, *Bish*; Albion, Ontario, Aug (NYS); Hamburg, Aug (EPV); Buffalo, Aug (EPV); Geneva, Canandaigua, Sep, *Fulton*; Gowanda, Aug (EPV); Ithaca, Aug (Univ. of Minn.), Aug, Sep, (CU), Aug (Ia. State Coll.), Aug (Morse); Coeymans, Aug–Sep (NYS); Saugerties, Aug, *Brb*; West

[18] There are but nine species of cicadas in New York State, whereas more inland areas, as Kansas and Colorado, have about twenty-five species each, and on the Pacific coast they are even more numerous. In *Tibicen auletes*, however, the State has one of the largest of North American cicadas, and in *T. chloromera* one of the most noisy and energetic. With the exception of the seventeen-year cicada, practically nothing is known of the life cycle of any of the species.

Pt., Sep, *Robn*; Yonkers; White Plains, Aug 29; Rye, Sep, several specimens, *Junius Bird*; W. Nyack, Aug; Central Pk., 1906; Inwood, Sep, *Ds*; Van Cort. Pk., Aug, *Ds*; City I., *Lesisski*; **SI**: generally distributed, but less plentiful where the soil is dry, late Jl–Sep; **LI**: found in places from Brooklyn along the north shore to Orient; occurs on Gardiners I. and at Montauk, but is probably absent or unusual in the pine-barren regions of the island.

1479 **T. canicularis** (Harr.). Crown Pt., Aug, *Not*; Keene Val., Jl–Aug (NYS), thirty-nine females, six males, Aug 18–Sep 29, six collected in Aug, thirty-nine in Sep, *Not*, Aug 11–26, *Diven*, Sep, *Eng*; Jay, Jl (*WEBritton*); Upper Jay, Aug, *Not*; Mt. Whiteface, Aug, *FHBenjamin*; Ausable Chasm, Sep, *Not*; Hope, Aug (NYS); Newport, Sep (NYS); Lowville, Jl–Aug, *RBHough*; Clinton, three females, *PBPowell* (Ds); Utica, Jl (NYS); Syracuse, Jl, *AJBasinger*, Aug–Sep, *Drk*, Sep 11 (Ia. State Coll.); Baldwinsville, Sep (Mich. Agr. Coll.); Belle Isle, Jl (NYS); Oneida, Aug (US); Arcadia, Aug (Mich. Agr. Coll.); Clyde, Aug, *Bish*; Lake Bluff, Sep, *Bish*; Honeoye Falls, two males, one female, Aug, *Kngt*; Batavia, Jl–Aug, *Kngt*; Hamburg, Aug (EPV); Buffalo, Aug (EPV); Geneva, two males, one female, Aug, *VHLowe*, Aug–Sep, *BBFulton*; Portage, Jl, *JLHoward*; Wyoming Co, Sep, *Kngt*; Jamestown, Jl, (NYS); Rock City, Sep, *GIWheeler*; Ithaca, eight specimens, Jl 9, Sep 4 (CU), Aug (APMorse), Jl, *HPMorrison*, Aug (Miss. Agr. Coll.), Jl (Univ. of Mich.), Aug, *Eng*; Elmira, Aug, *Diven*; Preble, Aug (Ia. State Coll.); Saratoga Sps., *Angus* (AM); Albany, Jl, Aug; Karner, Jl, Aug, Sep (NYS); Nassau, Je (NYS); Big Ind. Val., Aug, *Pears*; Allaben, Aug, *Dow*, Aug, *AHHelme*; E. Jewett, Aug, *Ds*; Elk Bushkill Val., Sep; Debruce, Sep, *Ds*; Callicoon, Jl, *Ds*; L. Mahopac, Aug, *TDO'Connor*; West Pt., Sep, *Robn*; Valley Cottage; Peekskill, Aug, *Sherm*; Yonkers; **SI**: when there were many groves of pines on the island, this was not an uncommon species, but it has become the rarest of the genus; on Sep 18, 1917, one was heard singing from a pine tree in the Moravian Cemetery; **LI**: there are no records for the western part of the island, but from Central Pk. eastward it is a common species, especially in the pine areas; it is less plentiful along the morainal hills of the north shore, but has been found as far east as Orient and Promised Land and also on Shelter I.

1477 **T. lyricen** (DeG.). Ilion (Titus); Sodus, *Foster* (AM); Niagara Falls, Aug 18, 1909 (EPV); West Pt., Sep, *Robn*; White Plains, Aug, *Ols*, *JBKnapp*; Pleasantville, *Kessler*; Tarrytown, Jl, *Wood*; W. Nyack, Aug; Bronxville, Jl, *Wood*, Aug; Bronx Pk., Aug, *Ds*; Van Cort. Pk., Aug; Central Pk., NYC (AM); **SI**: generally distributed over the island, and in 1922 heard singing as early as Jl 8; is more of a tree-inhabiting species than *chloromera*; **LI**: found all over the island, including Orient Pt., Montauk, Shelter I., and Gardiners I. In late Aug, 1917, this species occurred in great numbers in places in the woods between Fresh Pond and Montauk; it was so abundant that the singing was a continuous performance.

1477a **T. lyricen** var. **engelhardti** (Ds.). Syracuse, Jl, *AJBasinger* (Ia. State Coll.); Ithaca, Je (CU); West Pt., Sep 14, three males, *Robn*; **LI**: Montauk, Sep, *Ds*, Aug. In the South this variety occurs in the mountains and is rare in the lowlands.

1475 **T. chloromera** (Wlk.) (*Cicada sayi* Smith & Grossbeck). Gowanda, Aug, *EPV*; Albany, Jl (NYS); Aug, *JSBailey* (AM); Castleton, Aug (NYS); Phoenicia, Aug, *EPV*; Saugerties, Aug, fifteen specimens,

Brb; Ft. Montgomery, Sep, *Schott*; Mt. Vernon, Aug, *GBeyer*; White Plains, Aug–Sep, nine males, two females, *JBKnapp*; Pleasantville, Sep, *Kessler*; Rye, Sep, *Bird*, Aug, *Ds*; Tarrytown, Jl, *Wood*; W. Nyack, Aug, *Ols&Ds*; Central Pk., Bronx Pk., Van Cort. Pk.; Throg's Neck, Aug, thirty-seven males, eleven females, *ASkinner*; **SI:** distributed all over the island and often found on low vegetation; Jl 8 (in 1913) is the earliest date that one has been heard singing on the island; on Oct 11, 1919, a very warm day, two were heard at St. George; **LI:** common on the westerly part of the island, but not recorded east of Oyster Bay and Hempstead; appears to prefer rather damp, heavy soil; occurs in Prospect Pk., Brooklyn.

1484 **T. auletes** (Germ.). Van Cort. Pk., Aug, *Ds*; Manhattan I., Sep, *Shoe*; **SI:** rather partial to sandy ground; Arrochar, Old Place, Watchogue, Long Neck near Travisville, Richmond Val., Jl–Sep. On Sep 10, 1916, there were a considerable number of these insects in the trees to the north of the Finger Board Road near the corner of Sand Lane, Arrochar. They were so numerous that their songs were continuous. **LI:** Pinelawn, Patchogue, Farmingville, Selden, Coram, Yaphank, Wading R., Riverhead, Montauk, Jl–early Oct. No doubt generally distributed over the island, especially in the areas of loose soil. Often sings in the late afternoon and into the evening.

CICADA Linnaeus

1501 **C. hieroglyphica** Say. **LI:** A few seen among the pines near Bald Hill, Riverhead, Aug, 1917, and six males captured in the same locality, Jl 18, 1918. The species no doubt occurs elsewhere on LI.

MAGICICADA Davis

1510 **M. septendecim** (L.) and form **cassinii** (Fisher). PERIODICAL CICADA, or SEVENTEEN-YEAR CICADA. Occurs in certain years very plentifully on **SI, LI,** in the Hudson R. Val., and in the central and western parts of the State. Occurs more sparingly elsewhere in the State, and appears to be absent from the higher regions. Only a few of the broods recorded as occurring in the State are really of prime importance, the others feebly representing some outlying swarms, or being perhaps belated individuals or else those that have appeared prematurely.

The small form *cassinii* appears with the larger *septendecim* and is usually considered as a variety of it. Its song is totally different from that of the large *septendecim,* being a series of chirps. It occurs in colonies in the area occupied by its larger relative, and is not so numerous or so widely spread.

On **SI:** brood 2 (1911–1928) appears in countless numbers; brood 6 (1915–1932) is the next largest, while broods 1, 3, 4, 5, 10, 13, 14, 15, and 17 have also been recorded, but not in large numbers.

On **LI:** brood 10 (1919–1936) and brood 14 (1923–1940) are the largest. Broods 1, 2, 4, 5, 8, and 9 have also been observed. Brood 1 (1910–1927) has a considerable swarm in the Half Way Hollow Hills, and brood 5 (1914–1931) in several localities from Wyandanch to Wading R.

Elsewhere in the State, brood 2 (1911–1928) is the great swarm in the Hudson R. Val., extending as far north as Washington and Saratoga Counties. Brood 3 (1912–1929) has been reported from Geneseo (NYS

Ent., 1912), brood 4 (1913–1930) from West Pt., brood 5 (1914–1931) from West Pt., brood 6 (1915–1932) from West Pt. (Robn), also from Dutchess, Greene, and Schenectady Counties (Rept. State Ent., 1915, and Bul. 71 of U. S. Dept. Agr., 1907); brood 7 (1916–1933) occurs in the central and western parts of the State, and has been reported from the following counties: Madison, Monroe, Onondaga, Ontario, Livingston, Yates, Cayuga, and Tompkins. Wyoming Co is given, as well as the above, in Bul. 71 of the U. S. Dept. Agr., 1907. For brood 8 (1917–1934) there is a doubtful record for Chautauqua Co. Brood 10 (1919–1936) is recorded from Monroe, Ontario, Niagara, and Columbia Counties. Brood 15 (1924–1941) is recorded from Saratoga and Dutchess Counties, in Bul. 71 of the U. S. Dept. Agr., 1907.

OKANAGANA Distant

1518 1523 **O. rimosa** (Say) (*O. noveboracensis* Emmons). Wilmington, Jl, *Ds*; Ithaca; Windsor, Je, two females, *Not*; West Pt., pupa skin, *Robn*, and heard singing on several occasions (Ds); top of Bear Mt., Interstate Pk., Je, *Schott*; **LI:** Rockaway Beach, in drift, Je, *Eng*, *Shoe*.

The following records are supposed to belong to this species, though possibly they may belong to the next; Egleston's Glen, near Keuka L., Je, singing (Ds); near Potter Swamp, Je, a number singing; Letchworth Pk., Je 13, 1915, pupa skin, also a number singing. This species is distributed across the northern part of North America from Me to B.C.

1518 **O. canadensis** (Prov.). Valcour I., L. Champlain, Aug (PLaurent); Niagara Falls (AM); Buffalo, Je (EPV); Canandaigua L., Jl; Ithaca, Jl (NYS), Je (Iowa State Coll.); Enfield Falls, Aug; Indian Ladder, Jl, Schoharie, Je, *Not*.

FAMILY CERCOPIDAE [19]

SUBFAMILY CERCOPINAE

MONECOPHORA Amyot and Serville

1545 **M. bicincta** Say. Ramapo, Jl (Ds); Mosholu, Bronx Pk., Jl, *Joutel* (Ds); Wyandanch, Aug (Ds, Ols); Yaphank, Aug (Ds).

1545a **M. bicincta** var. **ignipecta** Fitch. Mosholu, Jl (Ball).

SUBFAMILY APHROPHORINAE

APHROPHORA Germar

1546 **A. quadrinotata** Say. Cranberry L., Jl, Wanakena, Aug, on a variety of plants (Osb); White L., *Zab* (AM); L. Placid, Aug (EPV); Batavia, Aug, *Kngt* (Morr); Buffalo (EPV); Lime L., Salamanca, Gowanda, Jl–Aug (EPV); Ithaca, Jl–Aug (CU); Oliverea, Je, *Shoe* (Ols); L. George, Aug, *Zab* (Ols–AM); **SI,** Je–Oct (Ds); **LI:** Flatbush, Jl–Aug, *Zab* (Ols–AM); Flushing, North Beach, Maspeth, Hempstead, Jl (Ols); Yaphank, Jl (Ds, Ols); Massapequa, Fire Place, Wading R., Southold, Orient, Jl–Sep (Ds).

[19] L. A. Stearns, of the New Jersey Agricultural Experiment Station, has been so kind as to check the manuscript for the family Cercopidae.

1548 **A. parallela** Say. PINE SPITTLE BUG. Cranberry L., Jl–Aug, on many conifers, breeding on spruce and pine (Osb); Batavia, Jl, *Kngt* (Morr); Lancaster, Colden, Hamburg, Elma, Gowanda, Salamanca, Je–Aug (EPV); Ithaca (div.); Karner (Felt); E. Jewett, Aug (Ds); **SI**, Je–Jl (Ds); **LI**: common and generally distributed on pines, Jl–Oct (Ds); Bay Shore, Yaphank, Wyandanch (Ols).

1551 **A. saratogensis** Fitch. Hamburg, Gowanda, Salamanca, Aug (EPV); Ithaca (WJBaerg); E. Jewett, Aug (Ds); Karner, Jl (Felt); **SI**, Je–Jl (Ds); **LI**: Bay Shore, Yaphank, Wyandanch, Jl (Ols). On pine.

1553 **A. signoreti** Fitch. Keene Val., Jl, *Not* (Ols); Wilmington, Jl (Ds); Ithaca (WJBaerg); Ramapo, Jl (Ds); **SI**, Je–Aug (Ds); **LI**: Bay Shore, Yaphank, Wyandanch, Jl–Aug (Ols).

LEPYRONIA Amyot and Serville

1555 **L. quadrangularis** Say. Keene Val., Aug, 1895 (Ball–NYS); L. Placid, Aug–Sep (EPV); Axton, Je (M&H); Saranac L., Sep (Ds); Rochester, Jl, *Wendt* (Ols); Portage, May, *Kngt* (Morr); Batavia, May, *Kngt* (Morr); Buffalo, Hamburg, Gowanda, Jl–Aug (EPV); Ithaca (CU); L. George, Aug, *Zab* (AM); W. Hebron, Sep, *Lg* (Ds); Karner (Felt); Yorktown Hgts., Sep (Ols); Bronx Pk., Aug (Ols); **SI**, Jl–Oct (Ds); **LI**: Sea Cliff (EPV); Sands Pt., Oct, *Bs*, Flushing, Aug (Ds); Flushing, Hempstead, Wyandanch, Fishers I., Jl–Sep (Ols).

PHILARONIA Ball

1559 **P. bilineata** Say. Cranberry L., Jl; Wanakena, Aug.

PHILAENUS Stål

1560 **P. leucopthalmus** L. (*spumarius* L.). Cranberry L., Wanakena, nearly all varieties occur, Jl–Aug (Osb); Ithaca; Salem, Jl (*Ball*).

1560a **P. leucopthalmus** var. **falleni** VanD. Indian L., near Sabael, Aug, *Brb* (Ols), as form *biguttatus* Fab.

1560b **P. leucopthalmus** var. **ulstulatus** Fall. Salem, Jl (*Ball*).

1560d **P. leucopthalmus** var. **leucocephalus** L. L. Placid, Oct (Ds); Wilmington, Jl (Ds); Genesee Co, Je (Ds); Salem, Jl (*Ball*).

1560h **P. leucopthalmus** var. **pallidus** Zett. Salem, Jl (*Ball*).

1561 **P. lineatus** L. Potsdam, Jl, Houghton (Ols); L. Placid, Sep (EPV); Saranac L., Sep (Ds); Cranberry L., Wanakena, Jl–Aug (Osb); Batavia, Jl–Aug, *Kngt* (Lawson); Hamburg, Lancaster, Elma, Salamanca, Je–Sep (EPV); Ithaca, Jl (div.); Oliverea, Jl, *Shoe* (Ols); Debruce, Aug–Sep; L. George, Aug, *Zab* (Ols–AM); Salem, Jl (*Ball*); **LI**: Fishers I., *Zab* (Ols–AM).

CLASTOPTERA Germar

1562 **C. obtusa** Say. L. Placid, Aug (EPV); Cranberry L., Wanakena, Jl–Aug (Osb); Albion (EPV); Portage, Aug, *Kngt* (Morr); Batavia, *Kngt* (Morr); Buffalo, Niagara Falls, Gowanda, Lancaster, Colden, Hamburg, Lawtons (EPV); Otto (Uhl–CU); Ithaca (CU); Salem, Je (*Ball*); W. Albany (Lint); Scarsdale (Lint); **LI**: Sea Cliff (EPV–CU); Flushing, Bay Shore, Winfield, Maspeth, Yaphank, Wyandanch, Jl–Sep (Ols).

1562a **C. obtusa** var. **achatina** Germ. Colden, Boston, Gowanda, Salamanca (EPV); **LI:** Hempstead, Flushing, Maspeth, Jl–Sep (Ols).

1562b **C. obtusa** var. **testacea** Fitch. "NY" (Fitch); Ithaca (WJBaerg); **LI:** Bay Shore, Wyandanch, Jl–Aug (Ols).

1566 **C. proteus** Fitch. Ausable R. (EPV); Keene Val., Je (Ball–NYS); Cranberry L., Wanakena, Jl, Aug (Osb); Portage, Aug, *Kngt* (Morr); Batavia, *Kngt* (Morr); Buffalo (EPV); Hamburg, Aug (EPV); Ithaca (Kngt, Baerg); Ft. Montgomery, Jl (Ds).

1566– **C. proteus** var. **flava** Ball. Keene Val., Jl (Ball–NYS).

1566b **C. proteus** var. **vittata** Ball. Hamburg, Aug (EPV); **SI**, Jl (Ds); **LI:** Flushing, Bay Shore, Jl (Ols).

1566c **C. proteus** var. **pini** Fitch (var. *nigra* Ball). Hamburg, Elma, Je–Jl (EPV); Ithaca (WJBaerg); Matteawan, Je (Lint); **LI:** Bay Shore, Yaphank, Jl (Ols).

1566– **C. proteus saint-cyri** Prov. Ithaca, *Baerg* (Ball).

FAMILY **MEMBRACIDAE** [20]

SUBFAMILY **SMILIINAE**

CERESA Amyot and Serville

1570 **C. diceros** Say. Keene Val., Elizabethtown, Long L. (NYS); Saranac L., *Kngt* (Funk); Wells, *Yg* (Funk); Severance, *CSBanks* (NYS); Cranberry L. (Osb); Wilmington (NYS); Wanakena (Osb); Potsdam, Aug (EPV–CU); L. Placid, Aug (EPV); Rochester, *Wendt* (Ols); Hamburg, Boston, Colden, Elma, Jl–Aug, Buffalo (EPV); Naples, *Bish* (Wood); Pike (NYS); Ithaca (EPV, Funk); Binghamton, Cortland (Funk); Karner (NYS); Normansville, *Leon* (Wood); Danby Hill, *Comst,* Aug, 1885 (CU); Watervliet Reservoir, *Leon* (Wood); Phoenicia (EPV); Callicoon, *Ds* (Wood); Poughkeepsie (NYS); West Pt., *Ds* (Wood); Millerton, *Dickerson* (Wood–AM); White Plains, Jl, *Bno* (Ols, Wood); Allaben, Aug, *Pears* (Ols); Bronxville (Wood); **SI**, *Ds* (Wood); **LI:** *Ds* (Wood); Flushing, Aug (Ols); Maspeth, Aug (Ols); Hempstead, Sep, Rockaway Beach, Aug (Ols). Locust, elder, oak, sycamore, sweet clover, blackberry, butternut, goldenrod, wild cherry, grape, joe-pye weed.

1571 **C. albescens** VanD. Saranac L. (Wood); Wilmington (Funk); Niagara Falls (EPV); Hamburg, Elma, Jl–Aug (EPV); NYC, *Ds* (Wood).

1572 **C. bubalus** Fab. BUFFALO TREE HOPPER. Waddington (Wood); Cranberry L. (Osb); Barber Pt., Wanakena (Osb); Wilmington (Funk); Long L., Keene Val., Clinton Hgts., Hope (NYS); Albion, Aug (EPV); Clyde, *Bish* (Wood); Rochester (Funk); Churchville (Funk); Niagara Falls (EPV); Buffalo, Hamburg, Lancaster, Gowanda, Jl–Sep (EPV); Pike (NYS); Geneva, *Hodg* (Funk); Ithaca (Funk); Cortland (Funk); L. George, *Leon* (Wood); Albany, Karner (NYS); Nassau L., *Leon* (Wood); Salem (NYS); Normansville, *Leon* (Wood); Watervliet Reservoir, *Leon* (Wood); Callicoon, *Ds* (Wood); Sullivan Co, *GFranck* (Ols); White Plains (Ols); High Bridge, *Kirkaldy*;

[20] The list in this family has been chiefly compiled from records, published and unpublished, furnished by E. D. Ball, W. D. Funkhouser, L. B. Woodruff, and C. E. Olsen. The first three specialists have looked over the manuscript and made changes and corrections in synonymy which the editor has attempted to harmonize as far as he has been able.

NYC, *Ang* (Ols); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Far Rockaway (Wood); Woodlawn, *Dickerson* (Wood–AM); Maspeth, Flushing (Ols). Sycamore, aster, poplar, potato, butternut, hazelnut, pear, sumac, oak, locust, elm, willow, elder, sweet clover, hickory, pignut, apple, white oak, joe-pye weed, grape, sweet pepperbush.

1574 **C. brevitylus** VanD. **LI**: Brooklyn (Funk).

1576 **C. taurina** Fitch. Wilmington (Funk); Keene Val. (NYS); Batavia, Jl–Aug, *Kngt* (Funk); Buffalo, Colden, Hamburg, Boston, Lime L., Gowanda, and Salamanca, Je–Aug (EPV); Geneva, *Hodg* (Funk); Ithaca (Funk); Ballston L., *Leon* (Wood); Watervliet Reservoir, *Leon* (Wood); Oliverea, *Ds* (Wood); NYC, *Mtch* (Funk); Bronxville (Wood); **SI**, *Ds* (Wood, *Ols*); **LI**: Maspeth, Winfield, Flushing, Forest Hills (Ols); Brooklyn (Funk). Raspberry, hickory, potato, blackberry, dahlia, hazelnut, locust, witch-hazel, blue grass, white and red oak, beech, pear, apple, sweet clover, bittersweet, morning glory, quince.

1577 **C. constans** Wlk. Wilmington (Funk); Buffalo, Hamburg, Boston, Aug–Sep (EPV); Ithaca (Funk); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: *Ds* (Wood); Yaphank (Wood); Wyandanch (Ols).

1578 **C. palmeri** VanD. Olcott, *Dt* (Funk); Rochester (Funk); Batavia, *Kngt* (Funk); Buffalo (EPV); Salamanca, Jl (EPV); Ithaca (EPV); Coy Glen (Funk); W. Hebron, *Ds* (Wood); Hebron (EPV); Bronxville (Wood); Riverdale (Wood); Bronx, *Ds* (Wood); NYC (Mtch); **SI** (Wood); **LI**: Wyandanch, Flushing (Ols). Hickory, wild cherry, red oak, scarlet oak, swamp white oak, grass.

1579 **C. borealis** Fairm. Mt. Whiteface (Funk); Saranac L. (Funk); Rochester (Funk); Hamburg, E. Aurora, Elma, Buffalo, Boston, Lancaster, Gowanda, Salamanca, Jl–Sep (EPV); Batavia, Jl–Aug, *Kngt* (Funk); Geneva, *Hodg* (Funk); Otto, Sep (EPV–CU); Danby, Aug (EPV–CU); Ithaca, Cortland (Funk); Scarsdale (Funk); Nassau L., *Leon* (Wood); Catskills, *Ds* (Wood); W. Nyack (Ols); Bronxville (Wood); Millerton, *Dickerson* (Wood–AM); Riverdale (Wood); NYC (Mtch); **SI**, *Ds* (Wood); **LI**: *Ds* (Wood); Flushing, Bay Shore, Maspeth, Port Washington, Queens, Wyandanch, Hempstead, Forest Hills (Ols); Lott Wood, *Zab*, Flatbush, *Zab*, *Schott* (Ols); Woodlawn, *Dickerson* (Wood–AM). Wild grape, locust, elder, red, white, and swamp white oak, willow, hickory, pignut, raspberry, sycamore, apple, pear, beech, grass.

1580 **C. basalis** Wlk. (*turbida* Goding). Speculator, Wells, *Yg* (Funk); Wilmington (Funk); Keene Val. (NYS); Saranac L., *Ds* (Ols); North Cr. (NYS); Mt. Whiteface (Funk); Wanakena (Osb); New Russia, *Bdy* (Funk); Cranberry L. (Osb); Albion, Aug (EPV); L. Placid, Aug (EPV); Waddington (Wood); Buffalo, Hamburg, Boston, Gowanda, Jl–Sep (EPV); Phoenicia (EPV); Kingston (EPV); Catskills, *Ds* (Wood); **LI**: Jamaica (EPV–NYS). Sweet clover, rose, clematis.

1582 **C. brevis** Wlk. Gowanda, Aug (EPV).

1583 **C. brevicornis** Fitch. Buffalo and vic., Jl–Oct (EPV); **LI**: *Ds* (Wood); Yaphank, Wyandanch, *Ds* (Wood); Bay Shore (Ols).

STICTOCEPHALA Stål

1587 **S. inermis** Fab. Keene Val. (NYS); Saranac L., Rochester (Funk); Batavia, Jl, *Kngt* (Funk); Niagara Falls, Buffalo, Hamburg, Lancaster, Colden, Jl–Sep (EPV); Clyde, *Bish* (Wood); Geneva, *Hodg* (Funk);

Ithaca (EPV); Karner (Wood–NYS); White Plains (Funk, Ols); W. Nyack (Ols); Ft. Montgomery, *Ds* (Wood); Riverdale (Wood); **LI**: Hempstead (Ols). Sweet clover, apple, timothy, red clover.

√1598 **S. lutea** Wlk. Axton, Je, *M&H* (EPV–CU); Rochester, *Wendt* (Ols); Baldwinsville, Buffalo, Hamburg, Portage Falls, Fulton, Gowanda, Mud Cr., Ithaca, Caroline to Harford, Slaterville to Caroline, McLean, May–Sep (EPV–CU); Clyde, *Bish* (Wood); Genesee Co (Wood); Westfield, *Dickerson* (Wood–AM); Binghamton (Funk); Ilion (NYS); Albany (Wood); Poughkeepsie, *Yg* (Wood); Thacher Pk., *Leon* (Wood); Nassau (Wood); E. Jewett, *Ds* (Wood); Oliverea, *Shoe* (Ols); Tivoli (Wood); West Pt., *Ds* (Wood); Ft. Montgomery, *Ds* (Wood); Bronxville (Wood); White Plains (Ols); **SI**, *Ds* (Wood); **LI**: Yaphank, Bay Shore, Wyandanch, Pine Lawn, Maspeth (Ols); Brooklyn (Funk); E. Hampton and West Hills (Funk). Oak, daisy.

1600 ?**S. nervosa** Buckt. "NY" (Buckton).

—— **S. sp.** Woodruff states that specimens belong here which are identified as *substriata* Wlk. in collection. **LI**: Central Pk. (Wood); Bay Shore, *Ols* (Wood).

ACUTALIS Fairmaire

1602 **A. tartarea** Say. Ithaca (EPV–CU); Wampus (Wood); White Plains, *Bno* (Wood); **SI** (Ols); **LI**: Maspeth, *Ols* (Wood); Winfield, Maspeth, Flushing (Ols). Locust.

—— **A. tartarea** var. **semicrema** Say. Batavia, *Kngt* (Funk); Albany (NYS); Yonkers, *Ols* (Wood); White Plains (Funk); Van Cort. Pk., Bronxville, NYC (Wood); **SI** (Ols); **LI**: Winfield, *Ols* (Funk); Maspeth, Flushing (Ols); Aqueduct (Ols); Brooklyn (Funk). Boneset, goldenrod.

MICRUTALIS Fowler

1604 **M. dorsalis** Fitch. Johnstown (NYS); Buffalo, Gowanda, Aug (EPV); Ithaca (EPV); Calders (Ball); E. Jewett, *Ds* (Wood). Clematis.

1605 **M. calva** Say. Ithaca (Funk); Scarsdale (Wood); Poughkeepsie, *Yg* (NYS); Bronxville (Wood); NYC (Mtch); **LI**: Flushing (Ols, Funk); Sea Cliff (EPV–CU). Alfalfa, locust, boneset.

CARYNOTA Fitch

1609 **C. mera** Say. Batavia, *Kngt* (Funk); Buffalo, Boston, Hamburg, Gowanda, Salamanca, Jl–Aug (EPV); Ithaca, Jl–Aug (EPV); Coy Glen, *Dt* (Funk); Albany (Yg); White Plains (Ols); NYC (Mtch); Bronxville (Wood); **SI** (Ols); **LI**: Yaphank (Wood); Flatbush, *Dow* (Mtch). Oak, hickory, butternut.

1611 **C. stupida** Wlk. Cranberry L., Wanakena (Osb).

1613 **C. marmorata** Say. Near Ausable R., Aug (EPV); Cranberry L. (Osb); Wells, Blue Mt., *Yg* (NYS); L. Placid (EPV); L. Pleasant (NYS); Bronxville, Wampus (Wood); **LI**: Aqueduct (Wood). Alder.

1614 **C. porphyrea** Fairm. Michigan Hollow, Ithaca (Funk); Saugerties, Jl (Funk). White oak.

THELIA Amyot and Serville

1615 **T. bimaculata** Fab. Potsdam (EPV); Rochester (Funk); Buffalo, Gowanda (EPV); Wyoming Co, *Kngt* (Funk); Ithaca, Cortland, Binghamton (Funk); Albany, *Yg* (NYS); W. Hebron, *Ds* (Wood); White Plains (Funk); Riverdale (Wood); NYC (Mtch); **SI**, *Ds* (Wood, Mtch); **LI**: Cold Sp. Harb., Sep (Mtch, Funk); Flushing, Port Washington, Hempstead (Ols). Black locust.

1616 **T. uhleri** Stål. Buffalo and vic. (EPV); Ithaca (Funk). Plum.

GLOSSONOTUS Butler

1617 **G. acuminatus** Fab. Buffalo, Colden, Lancaster (EPV); Ridgeway (Ball); Ithaca (Funk); Karner, Jl (Felt); Bronxville (Wood); NYC (Mtch); **LI**: Yaphank, *Ds* (Wood); North Beach (Ols). Black, white, and red oak.

1618 **G. turriculatus** Emns. Batavia, *Kngt* (Funk); Karner, Jl (Wood); **SI**, *Ds* (EPV); **LI**: Bay Shore (Ols); Wyandanch, Central Pk. (Ols); Huntington (Wood); Yaphank, *Ds* (Wood). Scrub oak.

1619 **G. univittatus** Harr. (*godingi* VanD.). Sacandaga Pk., *Alex* (Funk);
1620 Gloversville, Jl (NYS); Rochester, *Wendt* (Ols), *Moore* (EPV); Batavia, *Kngt* (Funk); Buffalo, Gowanda, Je (EPV); Ithaca (Funk); Karner, Jl (Felt); Pine I., Ft. Montgomery, *Ds* (Wood); Riverdale (Wood); Bronxville (Wood); NYC (Mtch); **LI**: Bay Shore, Central Pk. (Ols); Rockaway Beach, *Schott* (Ols); Yaphank (Wood).

1621 **G. crataegi** Fitch. Kendall, Jl (NYS); Batavia, Jl, *Kngt* (Funk); Hamburg, Lancaster, Jl (*EPV*); Albion (Funk); Kingston (Wood–AM); **SI**, *Ds* (Wood). Hawthorn, crab apple, quince.

—— **G. nimbatulus** Ball. Karner (Ball–NYS); **LI**: Massapequa, *Ds* (Ball). Scrub oak.

HELIRIA Stål

1622 **H. cristata** Fairm. "NY", probably Salem (Fitch–NYS); **LI**: Wading R., *Ds* (Wood).

1623 **H. scalaris** Fairm. Lancaster, Colden, Jl (*EPV*); Ithaca (Funk); Pine I., *Sf* (Ball); Bronx (Wood).

1624 **H. projecta** Butler. Ithaca, Je–Jl (EPV).

—— **H. cornutula** Ball. Knoll, *DeL*, Pine I., *Sf*, Bronx, Oct, *Mtch*, **LI**, *Ols* (all Ball).

—— **H. fitchi** Ball. "NY" (Fitch–US).

TELAMONA Fitch

1629 **T. pyramidata** Uhl. Wilmington, Saranac L. (Wood); Gloversville (Wood–NYS); Ithaca (EPV); Albany (Ball–NYS). Chestnut, oak, willow.

1628 **T. pyramidata** var. **declivata** VanD. Cranberry L. (Osb); Rochester, *Wendt* (Ols); Honeoye Falls, *Kngt* (Funk); Spring Brook, Je (*EPV*); Ithaca (CU). This synonymy is Ball's.

1632 **T. westcotti** Goding (*obsoleta* Ball). Keene Val. (Wood–NYS); Ithaca,
1633 Jl (EPV); **LI**: Central Pk., *Ds* (Wood). Oaks.

1634 **T. dubiosa** VanD. Ithaca (EPV–CU); Rye, *Ds*, Bronxville (Wood). White oak.

1635 **T. reclivata** Fitch. Wanakena (Ols); Saranac L., *Ds* (Wood); Cobleskill (EPV–CU); Mt. Whiteface, *Ds* (Wood); Batavia, *Kngt* (Funk); Niagara Falls, Buffalo, Hamburg, Colden, Hamburg, Ashford, Gowanda, Jl–Aug (EPV); Ithaca, Aug (EPV); Big Ind. Val., *Ds* (Wood); L. George (Wood–AM); Pine I., *Ds*, Bronxville (Wood); **SI** (Wood); **LI**: Central Pk., Cold Sp. Harb., *Ds* (Wood). Dr. Ball writes that almost all references to *reclivata*, especially those referring to basswood, belong to *tilliae* Ball. White oak, swamp white oak, red oak.

1630 1637 **T. decorata** Ball (*barbata* VanD.). Cranberry L., *Osb* (Funk); Medina, *LHWeld* (Funk); Batavia, *Kngt* (Funk); Boston, Aug (EPV); Ithaca, Je (Funk, EPV); Scotia, *Yg* (Wood–NYS); L. Mohonk (Wood); Pine I., *Ds* (Wood); Central Pk., NYC, Jl, *Sf* (Ball–Brooklyn Museum). Chestnut oak, white oak, linden, basswood. Dr. Ball states that most of these references are from males of *tilliae* Ball.

1644 1645 **T. monticola** Fab. (*querci* Fitch). Mt. Whiteface, *Ds* (Wood); Rochester, *Wendt* (Ols); Olcott, *Dt*, Batavia, Aug, *Kngt* (Funk); Buffalo, Lancaster, Jl (EPV); Medina (Ball); Portage, *Kngt* (Funk); Gowanda, Aug (*EPV*); Conesus L., *Ds* (Wood); Rock City, *Kngt* (Funk); western NY (EPV); Ithaca, Jl–Aug (Funk–CU); L. Mohonk (Wood); Pine I., *Ds* (Wood); Nyack (Wood–AM); Ft. Montgomery, May (Ball); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Half Way Hollow Hills, *Ds* (Wood); Wyandanch, *Schott* (Ols); Flatbush (Wood); Yaphank, *Ds* (Wood). White, chestnut, and red oak.

1646 **T. ampelopsidis** Harr. Potsdam, *Houghton* (Ols); Ogdensburg (NYS); Wilmington (Funk); Oswego (NYS); Rochester (Funk); LeRoy, *Cy* (Funk); Buffalo, Jl–Aug (EPV); Ithaca, Je–Oct (CU); Interlaken, Cortland (Funk); Binghamton (Funk); Trumansburg (Funk); Albany (NYS); Menands (NYS); Ft. Montgomery, *Schott* (Ols); NYC, *Ds* (Wood); **SI**, *Ds* (Wood); **LI**: Yaphank, *Ds* (Wood); Brooklyn (Wood); Maspeth (Ols). Virginia creeper.

1647 **T. tristis** Fitch. Batavia, *Kngt* (Funk); E. Aurora, Sep (EPV); Ashford, Gowanda, Jl–Aug (EPV); Ithaca (Funk); **SI** (Wood–AM). Witch-hazel, basswood, oak, hazelnut.

T. tristis var. **coryli** Fitch. Wanakena (Osb); Batavia, Aug, *Kngt* (Funk); Lancaster, Otto, Gowanda, Jl–Aug (EPV); Ithaca (Funk); Slide Mt., *Ds* (Wood); Orange Co, *WTBather* (Ols); **SI** (Wood). Oak, hazelnut.

1648 **T. concava** Fitch. Lewiston, Jl (EPV); Ithaca, *GFAtkinson* (EPV); Salem (Ball–NYS, US).

T. ornata Emm. Bronxville (Wood). *Quercus alba* and *Q. velutina*. Woodruff considers this distinct from *concava*.

1649 **T. gemma** Ball. Adirondacks, *Brb* (Ball); Lancaster, *EPV* (Ball); Ithaca (Funk); Catskills, *Ols, Drk* (Ball).

1651 **T. unicolor** Fitch. Rochester, *Wendt* (Ols); Batavia, Jl–Aug, *Kngt* (EPV); Hamburg, Colden, E. Aurora, Spring Brook, Je–Sep (EPV); Portage, *Kngt* (Funk); Ithaca, Albany (Funk); Pine I., *Ds* (Funk); W. Nyack (Ols, Wood); Bronxville (Wood); **LI**: Rockaway Beach, *Schott* (Ols). Hickory, butternut, walnut, basswood.

1651a **T. unicolor** var. **irrorata** Fitch. "NY" (EPV).

1652 **T. extrema** Ball. Batavia, *Kngt* (Funk); Karner (Wood–NYS); **LI**: Winfield (Ols); Orient Pt., Coram, *Ds* (Wood). Scrub oak.

1653 **T. collina** Wlk. Hamburg, Jl (EPV); Ithaca (EPV, Funk); Pine I., Bronxville (Wood). Sycamore, bur oak.

1654 **T. maculata** VanD. Ithaca, Aug (Funk); Pine I., *Ds* (Funk, Wood); Bronxville (Wood); **SI,** *Ds* (Wood); **LI:** Wading R., *Schott* (Wood); Yaphank (Funk). Swamp white oak, white oak.

—— **T. tremulata** Ball. Cranberry L., *O&D,* as *barbata* (Ball); Salem, Jl (Ball).

—— **T. woodruffi** Ball. Pine I., Jl (Ball–BM).

ARCHASIA Stål

1661 **A. galeata** Fab. Buffalo, Jl (EPV); Karner (NYS); **LI:** Wyandanch, Jl, *Ds* (Ball); Bay Shore, *Ols* (Wood); Pinelawn, Wading R., Central Pk., *Ds* (Wood). Oaks.

1662 **A. belfragei** Stål. Medina, *LHWeld* (Funk); Buffalo, Hamburg, Gowanda, Je–Jl (EPV); Ithaca (EPV, Funk); Pine I., *Ds* (Wood); White Plains (Funk); Bronxville (Wood); **SI,** *Ds* (Wood); **LI:** Wyandanch, *Ds* (Funk); Coram, *Eng* (Wood); Massapequa, Yaphank, *Ds* (Wood). Oaks.

SMILIA Germar

1664 **S. camelus** Fab. Rochester, *Wendt* (Ols); Batavia, *Kngt* (Funk); Buffalo (EPV); Ithaca (CU); Glenmont, *HDHouse* (Wood–NYS); Nassau (NYS); Catskills (Mtch); Ramapo Mts. (Mtch); Bronx Pk., *Wat* (Ols); **LI,** Je, *Eng* (Mtch, Ols). Locust, oak.

1664a **S. camelus** var. **guttata** Fitch. "NY" (Fitch); New Foundland, Je, *Wat* (Mtch).

1664d **S. camelus** var. **silvestri** Mtch. Otis Summit, Catskills, Je, *Silvester* (Mtch).

CYRTOLOBUS Goding

—— **C. funkhouseri** Wood. Ft. Montgomery, *Schott* (Wood); **SI,** Ds (EPV) as *celsus* belongs here (Wood); **LI:** Central Pk., *Shoe* (Wood); Yaphank, Massapequa, Wading R., *Ds* (Wood); Bay Shore, *Ols* (Wood).

1668 **C. ovatus** VanD. Ithaca (Funk); **SI,** *Ds* (EPV); **LI:** Bay Shore, *Ols* (Wood); E. Hampton (Funk); Yaphank, *Ds* (Wood).

1669 **C. fuliginosus** Emns. Rochester, *M&W* (Wood, EPV); Indian Falls, *Ds* (Wood); Ithaca (Funk); Salem, Jl (Ball); Bronxville (Wood); **SI,** *Ds* (Wood); **LI** (Wood). All large oaks.

1671 **C. arcuatus** Emns. Ithaca, *Kngt* (Funk); **SI,** *Ds* (Funk); **LI:** Yaphank (Wood).

1672 **C. fenestratus** Fitch. Rochester, *Wendt* (Wood); Batavia, *Ds* (Wood); Catskills (Wood); Bronxville (Wood); **LI:** Yaphank, *Ds* (Wood). Large oaks.

1673 **C. tuberosus** Fairm. Rochester, *Wendt* (Wood); Ithaca (EPV); Danby (Funk); Spencer (Funk); Pine I. (Wood); **LI:** E. Hampton (Funk); Yaphank, *Ds* (Wood); Coram, *Eng* (Wood); Kings Pk., *Bell* (Ols).

1676 **C. discoidalis** Emns. Genesee Co, *Ds* (Wood); Boston, Aug (EPV); Ithaca (EPV, Funk); **LI:** Farmingdale, *Morrow* (Funk).

—— **C. acuminatus** Wood. Pine I., *Ds* (Wood).

—— **C. auroreus** Wood. Pine I., *Ds* (Wood); Bronxville (Wood); **LI:** Yaphank, *Ds* (Wood). White oak.

1677 **C. cinctus** VanD. Ithaca, Je (EPV), type; Bronxville (Wood). White oak.

1678 **C. vau** Say (*sculptus* Fairm.). Albion, Conesus L., Aug (EPV); Rochester (Funk); Buffalo, Hamburg, Lancaster, Boston, Salamanca, Je–Aug (EPV); Olcott, *Dt* (Funk); Red House, *Not* (Wood); Ithaca (EPV, Funk); Caroline to Harford, Je (EPV–CU); Trumansburg (Funk); Cortland (Funk); Karner, Albany (Wood–NYS); Tivoli (Wood–NYS); Pine I., *Ds* (Funk); Bronxville (Wood); West Pt., *Ds* (Wood); Ft. Montgomery, *Schott* (Ols); NYC (Mtch); **LI:** E. Hampton (Funk); Central Pk. (Ols); Bay Shore, *Ols* (Funk); Farmingdale, *Morrow* (Funk). White, red, chestnut, and scarlet oak.

—— **C. pulchellus** Wood. Pine I., *Ds* (Wood); W. Nyack, *Ols* (Wood).

—— **C. puritanus** Wood. **LI:** Yaphank, *Ols*, Half Way Hollow Hills, *Ds*, Central Pk., *Shoe*, Wyandanch, *Ols* (Wood).

1681 **C. maculifrontis** Emns. Rochester, *Wendt* (Ols); Portage, *Kngt* (Funk); Batavia, *Kngt* (Funk); Ithaca (Funk); Pine I., *Ds* (Wood); Bronxville (Wood); **LI:** West Hills, Wading R., Central Pk., Wyandanch, *Ds* (Wood).

1682 **C. pallidifrontis** Emns. Mt. Kisco (Wood–NYS); Rochester, *Wendt* (Wood); Red House, *Not* (Wood); Poughkeepsie (Wood–NYS); Pine I. (Wood); Nyack, *Ds* (Wood); W. Nyack (Ols); Bronxville (Wood); **LI:** Rockaway Beach (Ols); E. Hampton, *Ds*, Central Pk., *Ols*, Kings Pk. (Wood); Yaphank (Wood).

—— **C. gramatanus** Wood. Pine I., *Ds* (Wood); Bronxville (Wood); **SI** (Wood).

1683 **C. intermedius** Emns. Mt. Whiteface, *Ds* (Wood); Wells, *Yg* (Wood); Rochester, *Moore* (EPV); Buffalo, Hamburg, Gowanda (EPV); Batavia, *Ds* (Wood); Ithaca (Funk); Salem, Jl (Ball); Bronxville (Wood); **SI** (Wood); **LI:** Yaphank, *Ds*, Bay Shore, *Ols* (Wood).

1684 **C. inermis** Emns. Colden, Hamburg, Salamanca, Jl–Aug (EPV); Ithaca (Funk); **LI:** Farmingdale, *Morrow* (Funk); Wading R., *Ds* (Wood); Central Pk. (Ols).

1685 **C. griseus** VanD. Genesee Co, Batavia, *Ds* (Wood).

1686 **C. cinereus** Emns. Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Ithaca (EPV, Funk); **LI:** E. Hampton (Funk). Oak.

—— **C. rufulus** Wood. **SI**, *Ds* (Wood); **LI:** Central Pk., *Ds*, Wyandanch, *Schott* (Wood).

—— **C. parvulus** Wood. Karner (Wood–NYS), paratypes; **LI:** Massapequa, *Ds*, Bay Shore, *Ols*, Central Pk., *Shoe* (Wood). *Quercus prinoides.*

1687 **C. fuscipennis** VanD. Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Red House, *Not* (Wood); Ithaca (EPV, Funk); Albany, Lansingburg (Wood–NYS); West Pt., *Ds*, Pine I. (Wood); Ft. Montgomery, *Ds* (Wood); Bronxville (Wood); **SI**, *Ds* (EPV, Wood); **LI:** Deep Pond, *Ds*, Bay Shore, Rockaway, Maspeth, *Ols* (Wood). Oak.

—— **C. flavolatus** Woodr. **LI:** Half Way Hollow Hills, *Ds* (Wood).

1688 **C. maculatus** Buckt. "NY" (Buckt).

—— **C. dixianus** Wood. Rochester Jct., *Leon* (Funk).

(Subgenus **ATYMNA** Stål)

1690 **C. castaneae** Fitch. Gloversville, Ap (NYS); Olcott, *Dt* (Funk); Buffalo, Boston, Jamestown, Gowanda, Salamanca, Jl–Aug (EPV); Springwater, *Not* (Wood); Red House, *Not* (Wood); Rock City, *Kngt* (Funk); Freeville, Jl (EPV–CU); Ithaca (EPV, Funk); Karner,

Poughkeepsie (NYS); Slide Mt., *Ds* (Wood); Ft. Montgomery (Wood); Slide Mt., *Ds* (Wood); Westchester Co (Wood); **SI**, *Ds* (Wood); **LI**: Maspeth, *Ols* (Wood). Scrub oak, chestnut, white oak.

C. castaneae var. **viridis** Emns. Olcott, *Dt*, Ithaca (Funk). Woodruff regards *viridis* as a color form of *castaneae*.

1690a **C. castaneae** var. **lineatus** Buckt. Hamburg, Gowanda, Jl–Aug (EPV).

1691 **C. helena** Wood. L. Keuka, *Cy* (Funk); Bronxville, Je (Wood); **LI**: Farmingdale, *Morrow* (Funk). *Quercus bicolor*.

1692 **C. querci** Fitch. Hastings, *Ds* (Wood); Rochester Jct., *Leon* (Funk); Niagara Falls, Aug (EPV); Boston, Gowanda, Salamanca, Jl–Aug (EPV); Portage, *Kngt* (Funk); Attica (Funk); Red House, *Not* (Wood); Trumansburg, Ithaca, Cortland (Funk); Binghamton (Funk); Karner, Albany (NYS); Salem, Jl (Ball); Poughkeepsie (Wood–NYS); West Pt., *Ds* (Funk); Pine I. (Wood); Southfields (Wood); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Yaphank (Wood); Central Pk., *Ds*, Bay Shore, Kissena Pk., Hempstead, *Ols* (Wood); Wyandanch, *Schott*, Coram, *Eng*, Wading R. (Wood). Scrub, white, and chestnut oak.

1693 **C. inornata** Say. Batavia, *Kngt*, Ithaca, *Plunk* (Funk); Gowanda, Aug (EPV–CU); Poughkeepsie (NYS); **LI**: Brooklyn (Funk). White oak, hickory.

XANTHOLOBUS VanDuzee

1695 **X. muticus** Fab. Rochester, *Wendt* (Wood); Rochester Jct., *Leon* (Funk); Batavia, *Kngt* (Funk); Buffalo, Je (EPV); Conesus L., *Ds* (Wood); Portage, *Kngt* (Funk); Ithaca (EPV, Funk); Nassau (Wood–NYS); Bronxville, Pine I. (Wood); **SI**, *Ds* (EPV); **LI**: Maspeth, *Ols* (Wood). Oak.

1696 **X. lateralis** VanD. Rochester, *Wendt* (Wood); Ithaca (EPV–CU).

1698 **X. nitidus** VanD. **SI**, *Ds* (EPV); **LI**: Bay Shore, *Ols* (Wood).

OPHIDERMA Fairmaire

1700 **O. salamandra** Fairm. Mt. Whiteface, *Ds* (Wood); Rochester, *Wendt* (Wood); Olcott, *Dt* (Funk); Buffalo, Je (EPV); Ithaca (CU); Albany (NYS); Slide Mt., *Ds* (Wood); Bronxville (Wood); **LI**: Kings Pk. (Wood); Rockaway, *Ols* (Wood). Oak.

1701 **O. pubescens** Emns. (*flaviguttula* Goding). Albion, Aug (EPV); Rochester, *Wendt* (Wood); Olcott, *Dt* (Funk); Fulton, Je (EPV–CU); Ithaca (CU); Caroline to Harford, Je (EPV–CU); Slide Mt., *Ds* (Wood); Bronxville (Wood); **SI**, *Ds* (Wood); **LI**: Farmingdale, *Morrow* (Funk); Wading R. (Wood); Bay Shore, *Ols*, Wyandanch, *Schott* (Wood). White oak.

1703 **O. flavicephala** Goding. Ithaca, Je–Jl (EPV, Funk); **SI**, *Ds* (Wood); **LI**: Wyandanch, *Schott*, Farmingdale, *Morrow* (Funk); Bay Shore (Ols, Wood).

1704 **O. flava** Goding. Mt. McIntyre, summit, *Bronson&Chrisp* (Wood–NYS); Mt. Whiteface, *Ds* (Wood); Woodworth, *Alex* (NYS); Ithaca (EPV, Funk); Albany (NYS); Bronxville (Wood); **SI**, *Ds* (EPV–CU).

—— **O. definita** Wood. Mt. Whiteface, *Ds* (Wood); Hamburg, Aug (EPV), paratype; Ithaca (Funk); Bronxville, *Wood* (Funk); **SI** (Wood); **LI**: Yaphank (Wood). Red oak.

—— **O. evelyna** Wood. Rochester, *Wendt* (Wood); Ithaca (Funk); Bronxville (Wood); **SI** (Wood); **LI**: Wading R., *Ds* (Wood). *Quercus velutina.*

—— **O. grisea** Wood. Rochester Jct., *Leon*, Olcott, *Dt* (Funk). *Quercus coccinea, Q. rubra.*

—— **O. fraterna** Gibson & Wells. "NY" (Gibson&Wells). This is the male of *flava* Goding (Wood).

VANDUZEA Goding

1709 **V. arcuata** Say. Rochester (Funk); Buffalo (EPV); Ithaca (EPV, Funk); Cortland, Binghamton (Funk); White Plains (Funk); Bronxville (Wood); **SI** (Wood); **LI**: Cold Sp. Harb., Sep (*Mtch*); Jamaica, *Ols*, Farmingdale (Funk); Yaphank (Wood); Mt. Vernon, Je; Wading R., *Ds* (Wood); Port Washington, Maspeth, North Beach, Flushing, Hempstead, Central Pk. (Ols).

ENTYLIA Germar

1716 **E. carinata** Forst. (*bactriana* Germ.). Mt. Whiteface, Wilmington, Buffalo (Funk); Newport (Yg–NYS); Lake Bluff, L. Pleasant (NYS); E. Aurora, Hamburg, Colden, Lancaster, Lawtons, Clarence, Gowanda, Otto, Millville, Dryden L., Ithaca (EPV); Trumansburg, Binghamton (Funk); Trenton Falls, *Dbl* (Wlk); Albany, Nassau, Poughkeepsie, Stockport, Phoenicia, West Hills, Hoversville (NYS); Yonkers (Ols, Wood); NYC (Mtch); Bronx, *Mueller* (Funk); Bronx Pk., *Ols*, Van Cort. Pk. (Wood); **SI**, *Ols* (Mtch, Funk); **LI**: Queens (Mtch); Maspeth (Ols); Central Pk. (Ols). Thistle, joe-pye weed, sunflower.

1716a **E. carinata** var. **torva** Fitch. Lancaster, Lawtons, E. Aurora, Gowanda, Je–Oct (EPV).

1716b **E. carinata** var. **reducta** Wlk. Gowanda, Aug (EPV); Ithaca (Funk).

1717 **E. concisa** Wlk. Ithaca (Funk); **LI**: Yaphank, *Ols* (Funk).

1718 **E. sinuata** Fab. "NY" (Fitch).

PUBLILIA Stål

1719 **P. concava** Say. Severance, *Bks*, and Beede's, Keene Val. (NYS); Ilion (NYS); Norwood, *Not* (Wood–AM); Rochester (Wendt); Medina, *LHWeld* (Funk); Sodus Pt., *Not* (Wood–AM); Batavia, *Kngt* (Funk); Oakfield, *Not* (Wood); Buffalo (EPV); Westfield (Wood–NYS); Otto, *Comst*, Cattaraugus (EPV–CU); Freeville, *Dt* (Funk); Ithaca (EPV, Funk); Slaterville to Caroline, (EPV–CU); Trenton Falls (NYS); Thacher Pk., *Bish* (Wood); Ravena, Nassau (NYS); New Baltimore, *Yg* (NYS); White Plains (Funk, Ols); W. Nyack, *Ols* (Wood); **LI**: Brooklyn (Funk). Goldenrod, skunk cabbage.

1719a **P. concava** var. **nigridorsum** Goding. Batavia, *Kngt* (Funk); Buffalo, Lancaster, Hamburg, E. Concord, Gowanda, May–Aug (EPV); Freeville, *Dt* (Funk); Ithaca (EPV, Funk); Dryden L., Je (EPV–CU).

SUBFAMILY MEMBRACINAE

CAMPYLENCHIA Stål

1734 **C. latipes** Say (*curvata* Stål). Keene Val. (NYS); L. Placid, *EPV* (NYS); Speculator, *Yg* (Funk); Potsdam, *Houghton* (Ols); Mt. Whiteface, Saranac L. (Funk); L. Champlain, *Bish* (Funk); near Ausable R.

(EPV); Cranberry L. (Osb); Rochester (Funk); Olcott, *Dt* (Funk); Medina, *LHWeld*, Rochester Jct., *Leon* (Funk); Batavia, *Kngt*, Albion (Funk); Thousand Isls.; Buffalo, Hamburg, Gowanda, Jl–Aug (EPV); Otto (EPV); Ithaca, Cortland, Trumansburg, Binghamton (Funk); Trenton Falls (Wlk–Brit.Mus.); Washingtonville, Poughkeepsie, Slingerlands, North Cr., Conquest, Clinton Hgts., Rensselaer, Albany, Nassau (NYS); Pine I. (Wood); W. Nyack, *Ols* (Wood); Oliverea (Wood); Bronxville, Riverdale (Wood); White Plains (Osb); NYC (Mtch); Bronx, *Mueller* (Funk); **LI:** Maspeth, *Ols*, Flushing, *Plunk*, Brooklyn, Woodhaven (Funk); E. New York (Funk); Bay Shore, *Ols* (Wood); Port Washington, Hempstead, Wyandanch (Ols); Cold Sp. Harb. (Osb). Aster, daisy, joe-pye weed, alfalfa, prickly lettuce, wild carrot, *Helenium tenuifolium*.

ENCHENOPA Amyot and Serville

1735 **E. binotata** Say. Speculator, *Yg* (NYS); Rochester, *Moore* (EPV, Funk); Buffalo, Hamburg, Gowanda, Jl–Aug (EPV); Otto, *Comst* (EPV–CU); Ithaca, Jl–Aug (Funk, EPV–CU); Utica, Sep (Lint); Cheviot-on-Hudson (Lint); Schenectady, Glens Falls, Karner, and New Paltz (NYS); Watervliet Reservoir, *Leon* (NYS); Scarsdale (Funk); White Plains (Funk); W. Nyack (Ols, Wood); Bronxville (Wood); Central Pk., NYC (Mtch); **LI:** Maspeth, *Ols* (Funk); Flushing, Port Washington, Hempstead, Central Pk. (Ols); Kings Pk., *Bell* (Wood); Jamaica, *Wlf* (NYS). Locust, wild grape, bittersweet, hickory, sycamore, butternut, dogwood, daisy, joe-pye weed.

SUBFAMILY CENTROTINAE

MICROCENTRUS Stål

1747 **M. caryae** Fitch. Cranberry L. (Osb); Batavia, *Kngt* (Funk); Buffalo, Elma, Hamburg, Gowanda, Aug–Sep (EPV); Coy Glen, *Dt*, Ithaca (Funk); **SI** (Mtch, Ols); **LI:** Cold Sp. Harb., *Parsh* (Funk); Pinelawn, Wyandanch (Ols); Queens (Mtch). Hickory, oak.

1748 **M. perdita** A. & S. Bronxville (Wood); **LI:** Yaphank (Wood); Flushing (Ols); Huntington, *Schott* (Ols).

FAMILY CICADELLIDAE [21]

(*Jassidae*)

SUBFAMILY BYTHOSCOPINAE

AGALLIA Curtis

1762 **A. novella** Say. Axton, Je (M&H); Cranberry L. (Osb); L. Placid, Aug (EPV); Batavia, May–Aug *Kngt* (Ols); Buffalo and vic., May–Jl (EPV); Rock City, Je, *Kngt* (Ols); Ithaca, McLean, May–Jl (Buys); Oliverea, May, *Shoe* (Ols); Phoenicia (Osb); **LI:** Bay Shore, Yaphank, Jl (Ols).

[21] The list in the family Cicadellidae has been compiled from records, both published and unpublished, chiefly of E. P. Van Duzee, C. E. Olsen, E. D. Ball, J. L. Buys, D. M. DeLong, and Herbert Osborn. Apparently there is still some disagreement concerning the exact status of certain of the species, but the editor has attempted to harmonize the views of these specialists to the best of his ability.

1763 **A. oculata** VanD. Niagara Falls, Hamburg, Salamanca, Jl–Aug (EPV); Cranberry L. (Osb).

1764 **A. quadripunctata** Prov. Axton, Je (M&H); L. Placid, Aug–Sep (EPV); Cranberry L. (Osb); Rochester, Jl, *Wendt* (Ols); Batavia, Je–Jl, *Kngt* (Ols); Buffalo and vic., May–Aug (EPV); Grand I., Clarence, Colden, Hamburg, Lawtons, May–Aug (EPV); Lancaster, *EPV* (Lint); Portage, May, *Kngt* (Ols); Rock City, Jl, *Kngt* (Ols); Ithaca, Ap–Je (CU); McLean, Ringwood, May–Je (Buys); Labrador L., May (Buys); Oliverea, Jl, *Shoe* (Ols); White Plains, Je (Ols); W. Nyack, May (Ols); **LI:** Forest Pk., Jl, *Bno* (Osb); Jamaica, Cold Sp. Harb. (Osb); Maspeth, North Beach, Flushing, Yaphank, Wading R., May–Je (Ols).

1765 **A. constricta** VanD. White Plains, May (Ols); **SI,** May, *Ols* (EPV), Aug (EPV); **LI:** Maspeth, Forest Hills, Bay Shore, Hempstead, Winfield, May–Sep (Ols); Cold Sp. Harb. (Osb); Sea Cliff (EPV–CU).

—— **A. lingulata** Ols. W. Nyack, May 30, 1921 (Ols).

1766 **A. deleta** VanD. (*immaculata* Lathrop). White Plains, May 2, 1915 (Ols).

1767 **A. sanguinolenta** Prov. L. Placid, Aug (EPV); Cranberry L. (Osb); Batavia, May–Jl, *Kngt* (Ols); Buffalo and vic., including Lancaster, Hamburg, N. Evans, Je–Oct (EPV); Phoenicia (EPV); Ithaca, May, *Morr* (Osb), Jl–Aug (Buys); Karner (Osb–NYS); Eagle Bridge, Nassau (Osb); White Plains, Yorktown Hgts., Je, Sep (*Ols*); Mosholu, Oct, *Bno* (Osb); **SI** (EPV); **LI:** Jamaica, Cold Sp. Harb. (Osb); Maspeth, Flushing, Central Pk., Bay Shore, Bayville, Hempstead, Flatbush, Forest Hills, Yaphank, May–Nov (*Ols*).

IDIOCERUS Lewis

1776 **I. amabilis** Ball. Cranberry L. (Osb); Batavia, Aug, *Kngt* (Ols); Salamanca, Jl (EPV); **LI:** Bay Shore, Yaphank, Jl (*Ols*).

1777 **I. nervatus** VanD. Albion, Aug (EPV); Lancaster, Hamburg, Jl–Aug (EPV); Albany (Osb–NYS); NYC, Southwick (EPV); **SI** (Osb).

1778 **I. pallidus** Fitch. L. Placid, Aug (EPV); Cranberry L. (Osb); Sodus Pt., Aug (Buys); Albion, Aug (*EPV*); Batavia, Jl–Aug, *Kngt* (Osb, Ols); Buffalo and vic., including Hamburg, Jl–Aug (*EPV*); Chatauqua Co, Sep (*DeL*); Salamanca, Jl (*EPV*); Portage, Aug, *Kngt* (Ols); Ithaca, Aug (Buys); Oliverea, Aug, *Ang* (AM); Salem (Osb); White Plains, Je (*Ols*); W Nyack, Jl (*Ols*); **SI,** Sep, *Ds* (Ols); **LI:** Yaphank, Aug, *Ds*. Willow and poplar.

1779 **I. suturalis** Fitch. L. Placid, Aug (*EPV*); Cranberry L. (Osb); Keene Val., Aug, *Not* (Ols); Batavia, Jl–Aug, *Kngt* (Ols, Osb); Buffalo and vic., including Hamburg, Gowanda, Elma, Colden, Je–Sep (*EPV*); Chautauqua Co, Jl (*DeL*); McLean, Jl (*Buys*); Karner (Osb–NYS); Salem (Osb); Phoenicia (*EPV*). Willow.

1779a **I. suturalis** var. **lunaris** Ball. L. Placid, Aug (EPV); Batavia, Jl–Aug, *Kngt* (Ols, Osb); Gowanda, Hamburg, Je–Aug (*EPV*); Chautauqua Co, Jl (DeL); Salamanca, Jl (EPV); McLean, Jl (*Buys*); Salem (Osb).

1779c **I. suturalis** var. **vagus** Ball. Hamburg, Salamanca, Jl–Aug (*EPV*).

—— **I. subnitens** S. & D. Cranberry L. (Osb).

1780 **I. duzeei** Prov. Lancaster, Jl (*EPV*).

1781 **I. alternatus** Fitch. L. Placid, Aug (*EPV*); Cranberry L. (Osb); Buffalo and vic., including Hamburg, May–Aug (EPV); Chautauqua Co, Jl (*DeL*); Ithaca, Ap–Jl (Buys); McLean, Ap, *Morr* (Osb); Salem (*Osb*). Willow.

—— **I. formosus** Ball. Cranberry L. (Osb).

1782 **I. verticis** Say. Salem (Osb).

—— **I. cognatus** Fieb. Chautauqua Co, Jl (DeL); **LI:** Winfield, Maspeth, Port Washington, Je–Sep (*Ols*). Introduced from Europe.

1793 **I. scurra** Germ. Buffalo, Oct (EPV); Ithaca (*Leon&Cy*); Bronx Pk., Aug, *Matausch* (EPV); **LI:** Brooklyn, Aug, *Schott* (Ols); Maspeth, Flushing, Aug–Sep (Ols). Poplar.

1795 **I. lachrymalis** Fitch. L. Placid, Aug (*EPV*); Cranberry L. (Osb); Keene Val., *Not* (Ols); Batavia, Je–Sep, *Kngt* (Ols, Osb); Portage, Je, *Kngt* (Ols); Hamburg, Lancaster, Elma, Gowanda, Je–Aug (EPV); Chautauqua Co, Jl (DeL); Ithaca, Aug, McLean, Jl, Taughannock Falls, Jl (Buys); Atwater, Jl (Buys); Salem (*Osb*); Phoenicia (EPV); **LI:** Bay Shore, Jl (*Ols*). Poplar.

1797 **I. snowi** G. & B. Lancaster, Aug (EPV).

1800 **I. crataegi** VanD. Niagara Falls, Aug (EPV); Buffalo and vic., including Lancaster, Hamburg, Jl–Sep (EPV); Chautauqua, May, Salamanca, Jl (EPV); Conesus L., Aug (*EPV*); Ithaca, Aug (Buys). Crataegus.

1801 **I. provancheri** VanD. BLACK APPLE-LEAF HOPPER. L. Placid, Aug (*EPV*); Cranberry L. (Osb); Severance (Osb–NYS); Oswego (Leon); Newark (Leon); Wolcott (Mat); Williamson (Cy); Spencerport (Cy); Honeoye Falls, Rochester Jct. (Leon); Holley (Cy); Batavia, Je–Jl, *Kngt* (Osb, Ols); Buffalo and vic., including Lancaster (EPV); Penn Yan (Cy); Ithaca (Leon); McLean, Jl (Buys); Ulster Co, Jl (Ols); Kinderhook, Stuyvesant Falls (Cy); **LI:** Babylon (Leon); Fishers I., Aug, *Zab* (AM). Apple, quince, pear.

1802 **I. fitchi** VanD. Batavia, Aug, *Kngt* (Ols); Buffalo, Hamburg, Salamanca, Jl–Aug (*EPV*); White Plains, Je (Ols); W. Nyack, Je (*Ols*); Mosholu, *Bno* (Osb); **LI:** Hempstead, Sep. (*Ols*).

MACROPSIS Lewis

(*Pediopsis* Burmeister)

1806 **M. reversalis** O. & B. Colden, *EPV* (O&B).

1807 **M. gleditschiae** O. & B. Chautauqua Co, Je (*DeL*); White Plains, Je (*Ols*); **LI:** Yaphank, Jl (*Ols*).

1808 **M. virescens** Gmel. var. **graminea** Fab. Hamburg, Lancaster, Jl–Aug (EPV); Salem, Aug (Osb). Willow.

1809 **M. viridis** Fitch. L. Placid, Aug (EPV); Cranberry L. (Osb); Batavia, Je–Jl, *Kngt* (Ols); Buffalo, Hamburg, Colden, Elma, Gowanda, Je–Aug (*EPV*); Chautauqua Co, Je (*DeL*); Salamanca, Jl (*EPV*); Ithaca, Aug (CU), Je (*Buys*); Karner (Osb–NYS); Salem, Aug (*Osb*); **LI:** Flushing, Jl (*Ols*). Willow.

1811 **M. suturalis** O. & B. Colden, *EPV* (O&B); Hamburg, Jl (*EPV*); Chautauqua Co, Je (*DeL*); Ringwood, Je (*Buys*).

1812 **M. crocea** O. & B. Hamburg, Jl (EPV).

1815 **M. basalis** VanD. Cobble Hill, Adirondacks, Aug (EPV); Cranberry L. (Osb); Batavia, Je–Jl, *Kngt* (Ols); Colden, Elma, Hamburg, Lancaster, Je–Jl (*EPV*); Salamanca, Aug (EPV). Aspen.

1817 **M. canadensis** VanD. L. Placid, Aug (EPV); Cranberry L. (Osb); Batavia, Jl–Aug, *Kngt* (Ols); Portage, Je, *Kngt* (Ols); Lancaster, Je (*EPV*–CU). Willow.

1818 **M. bifasciata** VanD. Axton, Je (M&H); Karner (Osb–NYS); Salem (*Osb*).

1819 **M. nigricans** VanD. Hamburg, Jl–Aug (*EPV*); Colden, Jl (EPV); Gowanda, Je (EPV). Poplar.

1821 **M. trimaculata** Fitch. Axton, Je (M&H); Sodus Pt., Sep (*Buys*); Batavia, Je–Aug, *Kngt* (Ols, Laws); Portage, Je, *Kngt* (Ols); Buffalo, Boston, Lancaster, Hamburg, Gowanda, Colden, Je–Aug (EPV); McLean (Buys); Highland, *Felt* (Osb). Wild plum.

1822 **M. sordida** VanD. Cranberry L., *Htly* (Osb & DeL); White Plains, Je (Ols).

ONCOPSIS Burmeister

1824 **O. variabilis** Fitch. Cranberry L. (Osb); Plattsburg, Jl, *Ds* (Ols); L. Tear, Jl, *Not* (Ols); Upper Ausable L., Jl, *Beq* (Ols); Fourth L., Je (Ols); Buffalo, Otto, Lancaster, Hamburg, May–Jl (*EPV*); Chautauqua Co (DeL); Gloversville (*EPV*); West Pt., Je, *Ds* (Ols); Bronxville, Je, *Wood* (Ols); **LI**: Bay Shore, Yaphank, Wyandanch, Jl (*Ols*). Birch.

1825 **O. sobrius** Wlk. Cranberry L. (Osb); Genesee Co, Je, *Ds* (Ols); Niagara Falls, Colden, Lancaster, Salamanca, May–Jl (*EPV*); Chautauqua Co, Je (DeL); **SI**, Je, *Ds* (Ols); **LI**: Wyandanch, *Schott*; Bay Shore, Yaphank, Je–Jl (*Ols*). Birch.

1826 **O. cognatus** VanD. Plattsburg, Jl, *Ds* (Ols); Cobble Hill, Adirondacks, Aug (*EPV*); Cranberry L. (Osb); Hamburg, Colden, Gowanda, Lancaster, May–Aug (EPV); Wyoming, Je, *Ds* (*Ols*); Ithaca, Ringwood, Je (*Buys*); Albany (Osb); Phoenicia (Ols).

1827 ?**O. truncatus** Baker. Batavia, Je–Jl, *Kngt* (Ols).

1828 **O. fitchi** VanD. Cranberry L. (Osb); Wilmington, Aug (WHBrittain); Buffalo, Hamburg, Colden, Boston, May–Aug (*EPV*); Wyoming Co, Je, *Ds* (Ols).

1829 **O. pruni** Prov. Cranberry L. (Osb); Mt. Marcy, Jl, *Not* (Ols); Axton, Je (M&H); Upper Ausable L., Jl, *Beq* (Ols); Batavia, Je, *Ds* (Ols); Buffalo (*EPV*); Rock City, Jl (Kngt); Ellis, Ithaca, Je (*Buys*); Albany (Osb); Oliverea, Jl, *Shoe* (Ols); Bronxville, Jl, *Wood* (Ols); **LI**: Hempstead, Central Pk., Bay Shore, Maspeth, Yaphank, Je–Oct (*Ols*).

1830 **O. minor** Fitch. Upper Ausable L., Jl, *Beq* (Ols); Upper Ausable R., Aug (*EPV*); Cranberry L. (Osb); Buffalo and vic., Je–Aug (*EPV*); Oliverea, Jl, *Shoe* (Ols); W. Nyack, May–Je (Ols); **SI**: Richmond, Je, *Ds* (Ols); **LI**: Wading R., May (*Ols*).

1831 **O. nigrinasi** Fitch. Cranberry L. (Osb); Batavia, Je–Aug, *Kngt* (Ols); Portage, Je, *Kngt* (Ols); Buffalo, Colden, Hamburg, Lancaster, Gowanda, Je–Aug (*EPV*); Salamanca, Jl, Rock City, Aug (*EPV*); **LI**: Flatbush, Je, *Zab* (AM). Hornbeam.

1832 **O. fagi** Fitch. Mt. Marcy, Jl, *Not* (Ols); Batavia, Je, *Kngt* (Ols); Cattaraugus, Je, *Kngt* (Ols); Ellis, Ithaca, Je (*Buys*); Oliverea, Jl, *Shoe* (Ols); Ft. Montgomery, Je, *Schott* (Ols).

1833 **O. distinctus** VanD. Buffalo, Lancaster, Hamburg, Jl–Sep (*EPV*); Chautauqua Co, Jl (*DeL*); Ft. Montgomery, Jl, *Schott* (Ols); Pine I., Je, *Ds* (Ols). Poplar.

SUBFAMILY CICADELLINAE

ONCOMETOPIA Stål

1846 **O. undata** Fab. Oswego (Osb–NYS).

1847 **O. lateralis** Fab. Axton, Je (M&H); Adirondacks, *Brb* (Ols); Cranberry L. (Osb); L. Placid, Aug (*EPV*); McLean, Aug (Buys).

1847a **O. lateralis** var. **limbata** Say. White Plains, Je 29, 1918 (*Ols*).

AULACIZES Amyot and Serville

1851 **A. irrorata** Fab. **LI:** Cold Sp. Harb. (Osb); Queens, Wyandanch, Je, Dec 25, under a stone, *Schott* (Ols); Pinelawn, Kings Pk., Je, *Bell* (Ols); Roslyn, Aug, *Ballou* (Ols).

CICADELLA Latreille

1855 **C. gothica** Sign. Axton, Je (M&H); L. Placid, Aug–Sep (*EPV*); Keene Val. (Osb); Cranberry L., *Htly* (Osb & DeL); Rochester, Jl, *Wendt* (Ols); Batavia, May–Aug, *Kngt* (Ols); Colden, Lancaster, Gowanda, May–Sep (*EPV*); Rock City, Je, *Kngt* (Ols); Portage, May, Kngt (*EPV*–Ols); Ithaca, Je (*Buys*); Oliverea, Je, *Beq* (Ols); Phoenicia, *EPV* (Osb); Karner (Osb); Salem, Aug (Osb); Clinton Hgts., Nassau (Osb); Kingston, *EPV* (Osb); W. Nyack, May–Oct (*Ols*); **LI:** Hempstead, Melville, Bay Shore, Wyandanch, Yaphank, May–Oct (Ols); Oyster Bay (Osb).

KOLLA Distant

1859 **K. bifida** Say. Keene Val. (Osb–NYS), Aug, *Not* (Ols); Batavia, Jl, *Kngt* (Ols); Buffalo, Hamburg, Lancaster, Gowanda, Jl–Aug (*EPV*); Ithaca, Jl–Aug (Buys–CU); Oliverea, Aug, *Zab* (AM); Phoenicia, *EPV* (Osb); Ballston L., Aug, *Leon* (NYS); L. George, Aug, *Zab* (AM); Salem (*Osb*); Saugerties, Jl, *Brb* (Ols); W. Nyack, Jl (*Ols*); Bronxville, Jl, *Wood* (Ols); NYC, Sep, *Bno* (Osb); **LI:** Jamaica, Cold Sp. Harb. (Osb); Flatbush, Oct, *Zab* (Ols).

HELOCHARA Fitch

1863 **H. communis** Fitch. L. Placid, Aug (*EPV*); Saranac Inn, Jl, *Ndm* (Osb); Cranberry L. (Osb); Sodus Pt., Aug (*Buys*); Rochester, Jl, *Wendt* (Ols); Batavia, Aug, *Kngt* (Osb, Ols); Buffalo, Hamburg, Ap–Sep (*EPV*); Portage, May, *Kngt* (Ols); Ithaca, May–Je, *Kngt* (Ols, Buys); McLean, Ap, *Morr* (Osb), May, Jl (Buys); Ringwood, Jl (*Buys*); Phoenicia (Osb); Salem, *Ang* (Osb); Karner, Albany, Nassau (Osb–NYS); Eagle Bridge (Osb); Kingston (Osb–NYS); White Plains, May (Ols); W. Nyack, Je (*Ols*); **SI** (Osb–NYS); **LI:** Flushing, Maspeth, Bay Shore, Huntington, Forest Hills, Wyandanch, Je–Sep (*Ols*). Juncus.

GRAPHOCEPHALA Van Duzee

(*Diedrocephala* Woodworth)

1864 **G. coccinea** Forst. Ausable R., L. Placid, Aug–Sep (*EPV*); Saranac Inn, Keene Val., Wilmington (Osb); Cranberry L., *Htly* (Osb & DeL); Sodus Pt., Aug (*Buys*); Rochester, Jl, *Wendt* (Ols); Batavia, Je–Jl, *Kngt* (Osb); Buffalo, Hamburg, Gowanda, Jl–Aug (*EPV*); Portage, Aug, *Kngt* (Osb); Ithaca, Je–Jl (Buys); Salem (Osb); Albany, Nassau, Eagle Bridge (Osb); Poughkeepsie (Osb); W. Nyack, Je–Sep (Ols); Mosholu (Osb); **SI**, Jl (Osb, Ols); **LI:** Forest Pk., Oyster Bay (Osb); Flatbush, Je–Jl (Buys); Bay Shore, Forest Hills, Huntington, *Schott,* Flushing, Central Pk., Sea Cliff, Kings Pk., *Bell,* Cold Sp. Harb., *Brb,* Rockaway Beach, Queens, Yaphank, Je–Oct (Ols).

1864a **G. coccinea** var. **teliformis** Wlk. L. Placid, Sep (*EPV*); Boston, Gowanda, Aug (*EPV*); Trenton Falls (Wlk–Brit. Mus.); **LI:** Bay Shore, Jl, *Ols* (EPV).

DRAECULACEPHALA Ball

1873 **D. angulifera** Wlk. Batavia, Aug, *Kngt* (Ols); Ithaca, Je–Sep (Ols, Buys); McLean Bogs, May, Jl (*Buys*); Nyack, Aug, *Zab* (AM); **LI:** Flushing, Winfield, Maspeth, Je–Sep (Ols).

1874 **D. mollipes** Say. Axton, Je (M&H); L. Placid, Aug (EPV); Cranberry L. (Osb); Sodus Pt., Aug (*Buys*); Batavia, Je–Aug, *Kngt* (Ols, Osb); Buffalo, Hamburg, Colden, May–Sep (*EPV*); Portage, Je, *Kngt* (Ols); Rock City, Je, *Kngt* (Ols); Ithaca and vic., Je–Oct, *div.* (CU); McLean Bogs, May, Jl (*Buys*); Ringwood, Jl (*Buys*); Phoenicia (*EPV*); Trenton Falls (Wlk); Salem (Osb); Karner, Albany, Nassau, Eagle Bridge (NYS); Poughkeepsie (NYS); White Plains, May (*Ols*); NYC, *Bno* (Osb); **SI**, May (Osb, Ols); **LI:** Sea Cliff (EPV–CU); Jamaica, Cold Sp. Harb. (Osb); Maspeth, Flushing, Bay Shore, Rockaway Beach, Little Neck, Huntington, *Schott*, North Beach, Yaphank, Ap–Jl (Ols).

1875 **D. minor** Wlk. Buffalo and vic. (EPV) (as *D. mollipes* var. *producta* Wlk.).

1877 **D. manitobiana** Ball. Batavia, Aug, *Kngt* (Ols).

1879 **D. noveboracensis** Fitch. L. Placid, Aug (*EPV*); Keene Val. (Osb); Cranberry L. (Osb); Piseco L. (Osb); Albion, Aug (*EPV*); Honeoye Falls, *Leon* (Buys); Batavia, Jl, *Kngt* (Ols); Squaw I., Niagara R. (*EPV*); Buffalo, Elma, Colden, Hamburg, Je–Aug (EPV); Otto, Jl (Uhl–CU); Portage, Aug, *Kngt* (Osb); Ithaca, Je–Sep (CU); McLean, Jl, *Buys* (Ols); Salem (Osb); Nassau (Osb); Carmel, Aug, *Buys* (Ols); **LI:** Cold Sp. Harb., Jl, *Brb* (Osb, Ols); Wyandanch, Aug (Ols).

PAGARONIA Ball

1883 **P. tripunctata** Fitch. Gowanda, Aug (*EPV*); Ithaca (CU); Phoenicia, Aug (*EPV*); Salem, Aug (Osb); Albany (Osb); Saugerties, Jl, *Brb* (Ols); White Plains, Je (Ols); W. Nyack, Oct (Ols); Mosholu (Osb); **SI** (Osb); **LI:** Jamaica, Cold Sp. Harb. (Osb); Sea Cliff (EPV–CU); North Beach, Glen Head, Wyandanch, Je–Sep (*Ols*).

EVACANTHUS LePeletier and Serville

1884 **E. acuminatus** Fab. Cranberry L. (Osb); Mt. Whiteface, Cobble Hill, Aug (*EPV*); Batavia, Je, *Kngt* (Ols); Niagara Falls, Aug (EPV); Lancaster, Gowanda, Jl–Aug (*EPV*); Salamanca, Jl (EPV); Chautauqua Co, Jl (DeL); Oliverea, Jl, *Shoe* (Ols); Slide Mt., Debruce, Aug–Sep (AM).

SUBFAMILY GYPONINAE

PENTHIMIA Germar

1894 **P. americana** Fitch. Rochester, Jl, *Wendt* (Ols); Batavia, Je, *Kngt* (Osb); Buffalo and vic., May–Jl (*EPV*); Portage, May, *Kngt* (Osb); Ft. Montgomery, Jl, *Schott* (Ols); W. Nyack, May (*Ols*); **LI:** Wyandanch, *Schott*, Pinelawn, Yaphank, Wading R., May–Jl (Ols).

GYPONA Germar

1896 **G. rugosa** Spångb. Grand I., Sep (*EPV*); Niagara Falls, Aug (EPV); Buffalo, Aug (EPV); W. Nyack, Oct (Ols); **LI:** Flushing, Oyster Bay, Bay Shore, Hempstead, Huntington, Wyandanch, Aug–Sep (*Ols*). Oak.

1897 **G. octolineata** Say. Cranberry L. (Osb); Keene Val., Aug, *Not* (Osb, Ols); Hope (Osb); Sodus Pt., Jl (Buys); Batavia, Jl–Sep, *Kngt* (Osb, Ols); Niagara Falls, Oct (*EPV*); Portage, Aug, *Kngt* (Ols); Buffalo, Lancaster, Hamburg, Aug–Oct (EPV); Ithaca, Aug, Sep (Ols, Buys); Karner (Osb); Salem (Osb); W. Nyack, Je–Sep (Ols); Dunwoodie, Oct, *Ang* (Ols); NYC, Sep (Osb, Ols); **LI:** Jamaica (Osb); Flushing, Maspeth, Bay Shore, Hempstead, Pinelawn, Port Washington, Glen Head, Wyandanch, Yaphank, Pennequid Barrens, *div.* (Ols).

1913 **G. octolineata** var. **geminata** Osb. (teste Ball). Sodus Pt., Aug (*Buys*); Hamburg, Sep (*EPV*); Ithaca, Jl–Aug (*Buys*); **LI:** Oyster Bay (Osb), types.

1898 **G. octolineata** var. **cana** Burm. Elma, Hamburg, Gowanda, Salamanca, Je–Aug (*EPV*).

1899 **G. octolineata** var. **quebecensis** Prov. Isham House, Adirondacks, Aug (*EPV*); Buffalo, Hamburg, Jl (*EPV*).

1904 **G. octolineata** var. **striata** Burm. Buffalo, Lime L., Hamburg, Gowanda, Salamanca, Jl–Aug (*EPV*); **LI:** Sea Cliff (EPV–CU).

1906, 1910 **G. melanota** Spångb. (*bipunctulata* Woodw.). Gowanda, Aug (*EPV*); Ithaca, Aug–Sep (*EPV, Buys*); Mosholu (Bno); **SI** (Bno); **LI:** Maspeth, Aug (Ols).

1907 **G. verticalis** Stål (*bimaculata* Spångb. teste Ball). White Plains, Pelham Pk., NYC, Sep, *Ang* (Ols). Both records are with the query that they may refer to *melanota* Spångb.

1923 **G. scarlatina** Fitch. Buffalo and vic., Jl–Aug (*EPV*); Ft. Montgomery, Je, *Schott* (Ols); **LI:** Maspeth, Aug, *Schott* (Ols).

1920, 1922 **G. scarlatina** var. **puncticollis** Spångb. (*albosignata* Uhl.). Niagara Falls, Hamburg, *Ang* (EPV); Batavia, Aug, *Kngt* (Ols); NYC, Sep, *Ang* (Ols).

1917 **G. scarlatina** var. **pectoralis** Spångb. Hamburg, Jl, Gowanda, Aug (*EPV*); Ithaca, Jl (*Buys*); Bronx Pk., Aug (Ols).

1925 **G. sanguinolenta** Spångb. **LI:** Bay Shore, Jl (*Ols*).

XEROPHLOEA Germar

1930 **X. viridis** Fab. Rock City, Jl, *Kngt* (Ols); Kingston (EPV); Mosholu, Jl (Osb); **LI:** Sea Cliff (EPV–CU).

1931 **X. major** Bak. White Plains, May (*Ols*); W. Nyack, Ap–Je (*Ols*); Mosholu (Osb); **LI:** Flushing, Bay Shore, Jl (*Ols*); Cold Sp. Harb. (Osb); Wading R., Je, *Schott* (Ols).

SUBFAMILY JASSINAE

STROGGYLOCEPHALUS Flor

1932 **S. agrestis** Fall. E. Concord, May (*EPV*); Ithaca, May (*Buys*).

ACUCEPHALUS Germar

1933 **A. nervosus** Schrank. Cranberry L. (Osb); Johnstown, Aug, *Alex* (EPV); Batavia, Jl, *Kngt* (Ols); Ithaca, Aug, Ringwood, Jl (*Buys*).

1935 **A. flavostrigatus** (Donov.). Indian L., near Sabael, Aug, *Brb* (Ols); Eagle Bridge, Aug (*Osb*); Phoenicia, Aug, *EPV* (Osb).

1936 **A. albifrons** (L). Cranberry L. (Osb); Wells, Jl, *Yg* (Ball–NYS); Rochester, *Moore* (EPV); Conesus L., Buffalo, Lancaster, Colden, Hamburg, Portage, Gowanda, Jl–Aug (*EPV*); Ithaca, Jl–Aug (*Buys*, Baker, *EPV*–CU); Phoenicia, *EPV* (Osb); Salem (*Osb*); White Plains, Je (*Ols*); NYC (Southwick); **LI:** Cold Sp. Harb., *Brb* (Osb) (Bul. 97, NYSMus); Queens, Aug, Maspeth, Je, Aug, Flushing, Jl, Sep, Winfield, Sep, Bay Shore, Jl, Rockaway Beach, Aug (*Ols*); Kings Pk., *Bell* (Ols); North Beach, Jl, *Schott* (Ols); Sea Cliff (EPV–CU).

1937 **A. placidus** Prov. W. Nyack, Ap (Ols).

XESTOCEPHALUS Van Duzee

1940 **X. pulicarius** VanD. Cranberry L. (Osb); L. Placid, Sep, Hamburg, Sep, Buffalo, Je–Sep, Elma, Je, Stamford, Aug (*EPV*); Lancaster, Colden, Aug (*EPV*–CU); Chautauqua Co, Jl–Aug (*DeL*); Ithaca, Jl–Aug (Buys, Baker–CU); Phoenicia, Aug (Osb); NYC, Aug, *Southwick* (EPV–CU); **LI:** Sea Cliff (EPV–CU); Jamaica, Aug (Osb).

1941 **X. superbus** (Prov.) (*fulvocapitatus* VanD.). Hamburg, Aug (EPV); Lancaster, Aug (*EPV*–CU); W. Nyack, Sep (Ols).

1944 **X. nigrifrons** Osb. W. Nyack, Je–Sep (Ols); Cranberry L. (Osb).

1945 **X. brunneus** Osb. Hamburg, Jl (*EPV*); Batavia, May, *Kngt* (Dickerson).

NIONIA Ball

1946 **N. palmeri** (VanD.). Stony Pt., Je, *Ds* (Ols); White Plains, Je (*Ols*); W. Nyack, Je (*Ols*); Yonkers, Oct, *Ang* (Ols); **LI:** Forest Pk., *Bno* (Osb); Sea Cliff (EPV).

HECALUS Stål

1952 **H. lineatus** (Uhl.). "NY" (VanD. Cat.).

SPANGBERGIELLA Signoret

1953 **S. vulnerata** Uhl. "NY" (Osb, Baker–US).

PARABOLOCRATUS Fieber

1955 **P. viridis** Uhl. Cranberry L. (Osb); Rochester, *Wendt* (Ols); Niagara Falls, Je, Hamburg, May–Je, Buffalo, Je (*EPV*); Batavia, Je, *Kngt* (Laws); Chautauqua Co, Je (*DeL*); Ithaca, Je (*Buys*); Mud Cr., Tompkins Co, Je (*Buys*); White Plains (*Ols*); **LI:** Jamaica, *EPV* (Bul. 97, NYSMus); Maspeth, Ap–Sep (*Ols*); Flushing, Jl, Rockaway Beach (Ols).

1956 **P. major** Osb. Cranberry L. (Osb); Wyoming, Je, Cattaraugus Co, Jl, *Kngt* (Ols).

MESAMIA Ball

1975 **M. vitellina** Fitch. Cranberry L. (Osb); Cobble Hill, Niagara Falls, Lancaster, Elma, Buffalo, Gowanda, Salamanca, Je–Aug (*EPV*).

SCAPHOIDEUS Uhler

1980 **S. sanctus** Say. **LI:** Cold Sp. Harb., *Brb* (Osb).

1982 **S. cruciatus** Osb. **LI:** Cold Sp. Harb., *Brb* (Osb).

1983 **S. auronitens** Prov. Cranberry L. (Osb); Albion (*Osb*); Hamburg, Niagara Falls, Lancaster, Elma, Buffalo, Stamford, Gowanda, Je–Sep (*EPV*); Chautauqua Co, Jl–Aug (*DeL*); Ithaca, Aug (*Buys*); Albany (Osb); Phoenicia (EPV); W. Nyack, Sep (*Ols*); **SI:** Jl (*Ols*); Clove Val., Jl (Osb–AM); **LI:** Cold Sp. Harb., *Brb* (Osb); Maspeth, Aug, Port Washington, Sep, *Ols* (EPV); Hempstead, Sep, Kissena Pk., Oct, Forest Hills, Sep (*Ols*); Sea Cliff, Aug (Ols, EPV–CU); Flatbush, Sep (Osb–AM); Jamaica, Aug (*EPV*, Osb).

1984 **S. jucundus** Uhl. Lancaster, Aug (*EPV*); Karner, Aug (Osb–NYS); **LI:** Hempstead, Jl, Maspeth, Je (Ols).

1985 **S. unicolor** Osb. **SI** (Osb).

1987 **S. consors** Uhl. Boston, Gowanda, Aug (*EPV*); Oliverea, Sep, *Dickerson* (AM).

1988 **S. scalaris** VanD. Cranberry L. (Osb); Ithaca, Aug (*Buys*); Phoenicia (*EPV*); W. Nyack, Aug (Ols).

1989 **S. lobatus** VanD. Cranberry L. (Osb); Lancaster, Sep, *WJPalmerJr* (EPV–CU); Hamburg, Oct, *MCV* (EPV, Osb); Boston, E. Aurora, Aug–Sep (*EPV*); Gowanda, Aug (*EPV*, Osb); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*, Osb); Poughkeepsie (Osb); Mosholu (Osb); Bryn Mawr Pk., Sep (AM); NYC, *Southwick* (EPV); **LI:** Jamaica, Cold Sp. Harb. (Osb); Kissena Pk., Flushing, Maspeth, Aug (*Ols*); Waterworks, Flatbush, Oct, Lott Wood, Flatbush, Aug–Sep, *Zab* (Osb–AM).

1990 **S. ochraceus** Osb. Cranberry L., Aug (*O&D*); Batavia, Jl, *Kngt* (Ols); Rochester, Oct, Colden, Jl (*EPV*); Buffalo, Aug (*EPV*, Osb); Gowanda, *EPV* (Osb); W. Nyack, Je (Ols); **LI:** North Beach, Jl (Ols).

1991 **S. productus** Osb. Cranberry L. (Osb); Mt. Whiteface, Aug (DeL); Hamburg, E. Aurora, Gowanda, Aug (*EPV*); **LI:** Cold Sp. Harb., Jl, *Brb* (Osb); Sea Cliff (EPV–CU).

1992 **S. carinatus** Osb. Hamburg, Jl, *EPV* (Osb); Gowanda, Aug, Ithaca, Jl–Aug (*EPV*); **LI:** Cold Sp. Harb., *Brb* (Osb); Bay Shore, Jl (Ols).

1994 **S. intricatus** Uhl. "NY", Aug, *EPV* (Osb); **LI:** Maspeth, Aug (Ols); Wyandanch, Sep, *Schott* (Ols).

1995 **S. luteolus** VanD. Hamburg, Jl (*EPV*); near NYC, Jl–Aug, *Southwick* (EPV); **SI,** Jl (*Ols*).

1996 **S. immistus** Say. Keene Val., Aug, *Not* (Ols); Cranberry L. (Osb); L. Placid, Aug (*EPV*); Sodus Pt., Aug (*Buys*); Lancaster, Jl, *EPV* (Lint); Batavia, Jl, *Kngt* (Osb, Ols); Niagara Falls, Hamburg, Buffalo, E. Aurora, Gowanda, Salamanca, Jl–Aug (*EPV*); Chautauqua Co, Jl (*DeL*); Ithaca, Jl (*Buys*); Karner (Osb); Phoenicia (*EPV*); Kingston (EPV); Eagle Bridge, Salem (Osb); W. Nyack, Aug, Yorktown Hgts., Sep (*Ols*); **LI:** Cold Sp. Harb., Jamaica (Osb);

Bay Shore, Jl, *Ols* (EPV); Hempstead, Aug–Sep, Wyandanch, Aug, Maspeth, Aug, Flushing, Jl, Sep (*Ols*); Flatbush, Jl, *Zab,* Kissena Pk., Aug (Osb–AM).

1996a **S. immistus** var. **minor** Osb. Batavia, Aug, *Kngt* (Ols); Lancaster, Hamburg, Aug (EPV); **LI:** Bay Shore, Aug, *Ols* (EPV); Wyandanch, Aug (*Ols*).

1996b **S. immistus** var. **major** Osb. Boston, Gowanda, Aug (*EPV*).

1998 **S. obtusus** Osb. Lancaster, Hamburg, Aug–Sep (*EPV*); **LI:** Bay Shore, Jl, Flushing, Je (Ols).

2000 **S. opalinus** Osb. Gowanda, Aug (*EPV*); **LI:** Cold Sp. Harb., on red cedar (Osb).

PLATYMETOPIUS Burmeister

2008 **P. hyalinus** Osb. Yonkers, Jl, Nyack, Aug (*Ols*).

2014 **P. acutus** Say. Cranberry L. (Osb); L. Placid, Aug (*EPV*); Sodus Pt., Aug (*Buys*); Batavia, Je–Aug, *Kngt* (Laws–EPV); Wyoming Co, Je, *Kngt* (Ols); Hamburg, Colden, Lancaster, Buffalo, Gowanda, Salamanca, Je–Aug (*EPV*); Chautauqua Co, Jl–Aug (*DeL*); Ithaca, Je, McLean, Jl (*Buys*); Karner, Felt (Osb); Phoenicia, *EPV* (Osb); Oliverea, Jl, *Shoe* (Ols); Salem, Eagle Bridge (*Osb*); Kingston, *EPV* (Osb); W. Nyack, Je, Oct (*Ols*); **SI**, Aug (*Ols*); **LI:** Cold Sp. Harb., Jamaica (*Osb*); Maspeth, Je, Sep–Oct, Bay Shore, Jl, Sep, Rockaway Beach, Jl, Canarsie, Sep, Hempstead, Jl, Sep, Flushing, Jl, Sea Cliff, Aug (*Ols*); Huntington, Sep, *Schott* (Ols).

2014a **P. acutus** var. **dubius** VanD. Niagara Falls, Hamburg, Elma, Salamanca, Jl–Sep (*EPV*); Ft. Montgomery, Sep, *Schott* (Ols); **LI:** Bay Shore, Jl (*Ols*).

—— **P. acutus** var. **cinnamoneus** Osb. Cranberry L. (Osb).

2017 **P. cuprescens** Osb. Cranberry L. (Osb); Indian L., near Sabael, Aug, *Brb* (Ols); Niagara Falls (*EPV*); Chautauqua Co, Aug (*DeL*); Salamanca, Jl (*EPV*); McLean, Jl (*Buys*); Phoenicia, *EPV* (Osb); Ft. Montgomery, Sep, *Schott* (Ols); **LI:** Sea Cliff (EPV–CU).

2020 **P. angustatus** Osb. **LI:** Cold Sp. Harb., Aug, on pine (Osb); Oyster Bay, Aug (Osb); Bay Shore, Sep (*Ols*).

2021 **P. fulvus** Osb. Colden, Gowanda, Salamanca, Phoenicia, Jl–Aug (*EPV*); **LI:** Cold Sp. Harb., Jl–Aug (*EPV*); Oyster Bay (Osb).

2023 **P. frontalis** VanD. Niagara Falls, Buffalo, Hamburg, Je–Sep (*EPV*); Chautauqua Co, Je–Jl (div.–CU); Ithaca, Je (*Buys*); Karner, Nassau (Osb); Poughkeepsie, Phoenicia (Osb); Kingston (EPV); Salem (Osb); White Plains, Je, W. Nyack, Oct (*Ols*); Mosholu, NYC (Osb); **SI** (EPV); **LI:** Jamaica, Cold Sp. Harb., Nassau Co (Osb); Maspeth, Flushing, Hempstead, Newtown Hgts., Huntington, Winfield, Bay Shore, Forest Hill, Yaphank, Sea Cliff, Bayville, Je–Sep (*Ols*).

2029 **P. magdalensis** Prov. (*obscurus* Osb.). Salamanca, Jl (*EPV*); Yorktown Hgts., Sep, W. Nyack, Oct (Ols); **LI:** Cold Sp. Harb., Aug, Pinelawn, Je, *Ols* (Osb); Pinelawn, Wyandanch, *Ols* (Osb); Bay Shore, Maspeth, Forest Hill, Jl–Sep (*Ols*).

DELTOCEPHALUS Burmeister

D. delector S. & DeL. Cranberry L. (Osb).

2035 **D. areolatus** Ball. Vic. of NYC (Osb).

2041 **D. sandersi** Osb. **LI:** Sea Cliff (EPV–CU).

2042 **D. pictus** Osb. **SI** (Osb).

2051 **D. configuratus** Uhl. Axton, Je, *M&H* (EPV–CU); Cranberry L. (Osb); L. Placid, Aug (*EPV*–CU); Lancaster, Hamburg, Buffalo, Colden, Je–Aug (*EPV*); Chautauqua Co, Aug (*DeL*); Cattaraugus Co, Je, *Kngt*; Ithaca, Je, McLean Bogs, May (*Buys*).

2052 **D. ocellaris** Fallén. Cranberry L. (Osb); Mt. Marcy, Jl, *Not* (DeL).

2053 **D. sayi** Fitch. Axton, L. Placid, Je–Aug (*EPV*–CU); Cranberry L. (Osb); Albion, Lancaster, Buffalo, Hamburg, Gowanda, May–Aug (*EPV*); Batavia, May–Jl, *Kngt* (Ols); Chautauqua Co (*DeL*); Rock City, Jl, *Kngt* (Ols); Ithaca, Je–Aug (*Buys*, Morr); McLean, May (*Buys*); Karner, Phoenicia, Kingston, Poughkeepsie; Eagle Bridge, Salem (Osb); White Plains, Je, W. Nyack, May–Je (*Ols*); **SI** (Osb); **LI:** Cold Sp. Harb., Jamaica, Maspeth, Flushing, Winfield, Newtown Hgts., Port Washington, Bay Shore, Yaphank, North Beach, Forest Hills, Bayville, May–Sep (*Ols*).

2055 **D. weedi** VanD. Chautauqua Co, Jl (*DeL*).

2055½ **D. interruptus** DeL. Chautauqua Co (*DeL*); W. Nyack, Je, *Ols* (DeL).

2057 **D. obtectus** O. & B. Hamburg, Aug (*EPV*); Eagle Bridge (Osb); Chautauqua Co, Je (*DeL*); Salem (Osb).

—— **D. misellus** Ball. Cranberry L. (Osb).

2059 **D. compactus** O. & B. L. Placid (*EPV*); Chautauqua Co, Je (*DeL*); Phoenicia (Osb); **SI** (Osb); **LI:** Cold Sp. Harb. (Osb).

2062 **D. apicatus** Osb. Cranberry L. (Osb); Mt. Whiteface, Hamburg, Gowanda, Aug–Sep (*EPV*); Chautauqua Co (*DeL*); Salem (Osb); W. Nyack, Je, *Ols*; **LI:** Forest Hills, Sep, *Ols* (DeL).

2063 **D. inimicus** Say. Cranberry L. (Osb); L. Placid (*EPV*); Sodus Pt., Aug–Sep (*Buys*); Batavia, Je–Aug, *Kngt* (DeL); Buffalo, Hamburg, Lancaster, Je–Aug (*EPV*); Portage, Aug, *Kngt* (Ols); Chautauqua Co, Je–Sep (*DeL*); Ithaca, Je–Aug, McLean Bogs, Jl (*Buys*); Karner, Kingston, Phoenicia; Nassau, Salem (Osb); White Plains, W. Nyack, Je, *Ols* (DeL); **SI** (Osb); **LI:** Cold Sp. Harb., Jamaica (Osb); Maspeth, Winfield, Flushing, Bay Shore, Sea Cliff, Je–Sep, *Ols* (DeL).

2065 **D. flavicosta** Stål. Batavia, Jl, *Kngt* (DeL); Lawtons (*EPV*); Eagle Bridge (Osb); Chautauqua Co, Jl (*DeL*); Eagle Bridge, Nassau, Salem (Osb); Yorktown Hgts., Sep, *Ols* (DeL); **LI:** Nassau Co, Cold Sp. Harb., Jamaica (Osb).

2071 **D. debilis** Uhl. L. Placid, Buffalo, Hamburg, Lancaster, Je–Aug (*EPV*).

2072 **D. abdominalis** Fab. Cranberry L. (Osb); Batavia, Je, *Kngt* (Ols); W. Nyack, Jl, Sep, *Ols* (DeL); **LI:** Cold Sp. Harb. (Osb); Maspeth, Je (Ols).

2073 **D. pascuellus** Fall. Cranberry L. (Osb); L. Placid, Sep (*EPV*); Batavia, Rock City, Jl, *Kngt* (Ols); Ithaca, Ringwood, Trenton Falls, Je–Jl (*Buys*); Phoenicia, Kingston, Aug (*EPV*); Salem, Eagle Bridge (Osb); **LI:** Cold Sp. Harb. (Osb).

2075 **D. melsheimerii** Fitch. Axton, Je, *M&H*, Cranberry L. (Osb); L. Placid, Buffalo, May–Aug (EPV–CU); Hamburg, Lawtons, Gowanda, Aug–Oct (*EPV*); Chautauqua Co, Aug 9 (DeL); Ithaca, Je (*Buys*); Eagle Bridge, Salem (Osb); W. Nyack, Je, *Ols* (DeL).

2082 **D. littoralis** Ball. **LI:** Sea Cliff (EPV–CU).

2083 **D. sylvestris** O. & B. Ausable R., Cobble Hill, Hamburg, Aug–Sep (*EPV*); Cranberry L. (Osb); Batavia, Je, *Kngt* (DeL); Chautauqua Co, Jl–Aug (*DeL*); W. Nyack, Je, *Ols* (DeL); **LI:** Maspeth, Je, *Ols* (DeL).

2089 **D. simplex** VanD. (*simplarius* O. & B.). **LI**: Astoria, Jl, *Southwick,* Sea Cliff (EPV).

—— **D. nominatus** S. & DeL. (*oculatus* O. & B.). Cranberry L. (Osb).

—— **D. flavo-virens** G. & B. Cranberry L. (Osb).

2090 **D. osborni** VanD. Lancaster, Gowanda, Aug–Sep (*EPV*); Chautauqua Co, Jl–Aug (*DeL*).

2097 **D. nigrifrons** Forbes. Lancaster, Hamburg, Phoenicia, Je–Sep (*EPV*).

—— **D. acus** S. & DeL. Cranberry L. (Osb); Chautauqua Co, Jl–Aug (*DeL*); **LI**: Bay Shore, Jl, *Ols* (S&DeL).

2079 **D. striatus** L. (*affinis* G. & B.). Batavia, Je, *Kngt* (S&DeL); Niagara Falls, Buffalo, Hamburg, Salamanca, Je–Aug (EPV); Chautauqua Co, Je–Aug (DeL); Rock City, Jl, *Kngt* (Ols); White Plains, Je, *Ols* (S&DeL); **LI**: Yaphank, Maspeth, May, *Ols* (DeL); Sea Cliff (EPV–CU).

—— **D. nigriventer** S. & DeL. Cranberry L. (Osb).

ACONURA Lethierry

2117 **A. acuticauda** Bak. Axton, Je, *M&H* (EPV); Cobble Hill, Aug (*EPV*).

DRIOTURA Osborn and Ball

2126 **D. gammaroides** VanD. Hamburg, Mosholu (Osb); White Plains, W. Nyack, Jl (Ols); **LI**: Bay Shore, Jl (Ols); Cold Sp. Harb., Jamaica (Osb).

2126b **D. gammaroides** var. **fulva** Ball. **LI**: Hempstead, Jl (Ols).

EUSCELIS Brullé

2131 **E. obscurinervis** Stål (*exitiosus* Uhl.). "NY" (VanD. Cat.).

2132 **E. striolus** Fall. Cranberry L. (Osb); Batavia, Jl, *Kngt* (Ols); Buffalo, Hamburg, Lancaster, Gowanda (*EPV*); Chautauqua Co, Aug (*DeL*); Phoenicia (EPV); Karner, Aug (Osb).

—— **E. stactogalus** Fieb. (*Eutettix osborni* Ball). NYC, Sep (Ols, Ball); **SI**: Westerleigh, Jl, *Bs* (Ols); **LI**: Maspeth, Je (Ols).

2133 **E. parallelus** VanD. McLean, Jl (Buys).

2134 **E. extrusus** VanD. Cranberry L. (Osb); summit of Mt. Whiteface, Aug (EPV); Axton, Je, *M&H* (EPV–CU); Rock City, Jl, *Kngt* (Laws); Oliverea, W. Nyack, May, Jl (Ols); Mosholu, Sep (AM); **SI**, May (Ols); **LI**: Yaphank, Wading R., Bay Shore, Wyandanch, May–Jl (Ols).

2136 **E. relativus** G. & B. Buffalo, Lancaster, Jl (*EPV*).

2136¾ **E. deceptus** S. & DeL. Cranberry L. (Osb); Chautauqua Co, Jl (*DeL*).

2138 **E. uhleri** Ball. Speculator, Jl, *Yg* (Ball–NYS); Cranberry L. (Osb); L. Placid, Hamburg, Buffalo, Salamanca, Gowanda, May–Aug (*EPV*); Batavia, Aug, *Kngt* (Ols); Ithaca, Jl (*Buys*); Oliverea, Jl, *Shoe* (Ols); White Plains, Je (Ols); Mosholu (Bno); **LI**: Maspeth, Flushing, Bay Shore, Huntington, Je–Aug (Ols).

2139 **E. anthracinus** VanD Adirondacks, *How* (EPV); Cranberry L. (Osb); Axton, *MacG* (EPV); Hamburg, Jl (*EPV*).

2142 **E. arctostaphyli** Ball. Cranberry L. (Osb); Indian L., near Sabael, Aug, *Brb* (Ols).

E. humidus Osb. Cranberry L. (Osb).

2144 **E. striatulus** Fall. Hamburg, Jl (*EPV*); Chautauqua Co, Je–Jl (*DeL*); **LI:** Bay Shore, Jl, Hempstead, Aug (Ols); Cold Sp. Harb. (Osb).

2145 **E. vaccinii** VanD. Cranberry L. (Osb); Mt. Whiteface, Cobble Hill, Hamburg, Salamanca, Jl–Aug (*EPV*); Karner, Poughkeepsie (Osb–NYS); White Plains, Je (Ols); **LI:** Bay Shore, Yaphank, Hempstead, May–Jl (Ols).

2146 **E. instabilis** VanD. Cranberry L. (Osb); Hamburg, Colden, Je–Jl (*EPV*); McLean, Jl–Aug (Buys).

2147 **E. angustatus** Osb. "NY" (VanD. Cat.); Cranberry L. (Osb).

2148 **E. elongatus** Osb. Cranberry L. (Osb); Chautauqua Co, Jl (*DeL*).

2156 **E. curtisii** Fitch. Cranberry L. (Osb); L. Placid, Buffalo, Hamburg, Lancaster, Lawtons, Gowanda, Je–Aug (*EPV*); Sodus Pt., Aug (*Buys*); Batavia, Aug, *Kngt* (Laws); Portage, Aug, *Kngt* (Laws); Wyoming, *Kngt* (Ols); Otto, Jl (Uhl–CU); Chautauqua Co, Je (*DeL*); Ithaca, Je, Ringwood, Jl (*Buys*); Nassau, Eagle Bridge, Salem (Osb); Karner; Clinton Hgts.; Phoenicia; Kingston; Warwick; W. Nyack, May, White Plains, Je (Ols); NYC; **SI**, Aug, *Ols* (EPV); **LI:** Maspeth, Huntington, Je (Ols); Cold Sp. Harb., Jamaica (Osb).

—— **E. comma** VanD. Cranberry L. (Osb).

EUTETTIX Van Duzee

2160 **E. luridus** VanD. "NY" (Ball); Karner (Osb–NYS); **LI:** Bergen I., May, *Zab* (AM).

2161 **E. marmoratus** VanD. **LI:** Melville, Sep, *Schott* (Osb); Yaphank, Central Pk., Ap–May, *Ols* (Osb).

2162 **E. southwicki** VanD. Hamburg, Boston, Salamanca, Jl–Aug (*EPV*); Gowanda, Karner, Aug (Osb); Ft. Montgomery, Sep, *Schott*, W. Nyack, Je (Ols); NYC (Ball); **LI:** Bay Shore, Jl (Ols); Wyandanch, Huntington, Aug–Sep, *Schott* (Ols).

2163 **E. subaeneus** VanD. **LI** (Ball–Osb).

2164 **E. querci** G. & B. **LI:** Hempstead, Jl (Ols).

2167 **E. pictus** VanD. **LI:** Bay Shore, Hempstead, Jl, *Ols* (EPV).

2168 **E. slossoni** VanD. **LI:** Bay Shore, Jl, *Ols* (EPV).

2170 **E. johnsoni** VanD. Gowanda, Aug (*EPV*); White Plains, W. Nyack, Je, Sep (Ols); Mosholu, Mount Castle, Bryn Mawr Pk., Je, Sep (AM); **SI**, Aug (*EPV, Osb*); **LI:** Jamaica (*Osb*); Flatbush, Je–Jl (*Buys*); Flushing, North Beach, Forest Hills, Winfield, Maspeth, Hempstead, Bay Shore, Jl–Oct (Ols).

2179 **E. seminudus** Say. Batavia, Je–Aug, *Kngt* (Ols); Hamburg, Buffalo, Lancaster, Je–Aug (*EPV*); Wyoming, Je, *Kngt* (Ols); Chautauqua Co, Jl (*DeL*); Ithaca, Je (*Buys*); Albany (Osb); E. Albany, Oct (Lint–NYS); Nassau, Eagle Bridge, Salem, NYC (Osb); W. Nyack, Je–Jl (Ols); **SI** (Osb); **LI:** Cold Sp. Harb. (Osb); Huntington, *Schott* (Ols).

2180 **E. cinctus** O. & B. **LI:** Glen Head, Sep, *Bade* (Ols); Wyandanch, Aug, *Ols* (Osb); Huntington, Sep, *Schott* (Ols).

2181 **E. chenopodii** Osb. (*strobi* Fitch). Buffalo (EPV); eastern NY, *EPV* (Ball); **LI:** Maspeth, Aug, *Ols* (EPV); Yaphank, May, *Ols* (Osb). This synonymy is that of DeLong.

2182 **E. scitulus** Ball. Cranberry L., *Htly* (Osb&DeL).

PHLEPSIUS Fieber

2195 **P. majestus** O. & B. Mosholu (Osb); **LI:** Glen Head, Sep, *Bade* (Ols).

2197 **P. excultus** Uhl. "NY" (Uhl).

2201 **P. decorus** O. & B. Cranberry L. (Osb); Hamburg, Niagara Falls, Elma, Gowanda, Salamanca, Jl–Aug (*EPV*); Chautauqua Co, Aug (*DeL*).

2212 **P. uhleri** VanD. **LI:** Yaphank, May, *Ols* (Osb).

P. strobi Fitch (*Eutettix strobi* Fitch, 2181). "NY" on pine (Fitch); NYC, Jl, *Southwick* (EPV).

2215 **P. maculosus** Osb. (*maculatus* Osb.). Bronxville, Jl, *Wood* (Ols). The synonymy is Olsen's.

2223 **P. incisus** VanD. Indian L., near Sabael, Aug, *Brb* (Ols); Ausable R., Saranac L., Lancaster, Buffalo, Boston, Gowanda, Salamanca, Jl–Sep (*EPV*); Batavia, Aug, *Kngt* (Osb); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*).

—— **P. maculellus** Osb. Cranberry L. (Osb).

2226 **P. fuscipennis** VanD. Montgomery, Sep, *Schott* (Ols); Albany, *Bno* (Osb–NYS); NYC, Jl, *Southwick* (EPV); **LI:** Maspeth, Oct, *Ols* (Osb).

2227 **P. turpiculus** Ball. Buffalo, Sep (*EPV*); **LI:** Bay Shore, Jl, *Ols* (EPV).

2228 **P. irroratus** Say. Cranberry L. (Osb); Batavia, Je–Jl, Portage, Aug, *Kngt* (Ols); Niagara Falls, Elma, Hamburg, Lawtons, Buffalo, Lancaster, Gowanda, Salamanca, Je–Sep (*EPV*); Ithaca, Je (*Buys*); Nassau, Salem (Osb); Nyack, *Zab* (AM); W. Nyack, Je, Oct, White Plains, Je (Ols); NYC, *Bno* (Osb); **SI** (Osb); **LI:** Cold Sp. Harb., Jamaica (Osb); Flatbush, Oct, *Zab* (AM); Wyandanch, Oct, *Schott* (Ols); Newtown Hgts., North Beach, Winfield, Maspeth, Forest Hills, Yaphank, Bay Shore, Port Washington, Je–Oct (Ols).

2230 **P. collitus** Ball. Gowanda, Salamanca, Jl–Aug (*EPV*); Chautauqua Co, Jl–Aug (*DeL*); White Plains, Je, W. Nyack, Oct (Ols); Bronxville, Je, *Wood* (Ols); Mosholu, Sep (AM); **SI**, Sep (AM); **LI:** Flushing, Bay Shore, Forest Hills, Sea Cliff, Jl–Aug (Ols).

2234 **P. lobatus** Osb. **LI:** Sea Cliff, Aug, Maspeth, Sep (Ols).

2235½ **P. tennessa** DeL. **LI:** Flushing, Aug (Ols); Pennequid Barrens, Coram, Jl, *Eng* (Ols).

2236 **P. apertus** VanD. Ausable R., Aug (*EPV*); Cranberry L. (Osb); Keene Val., *Felt* (Osb); L. George, Aug, *Zab* (AM).

2237 **P. fulvidorsum** Fitch. Cranberry L. (Osb); L. Placid, Elma, Lancaster, Boston, Gowanda, Salamanca, Jl–Sep (*EPV*); Chautauqua Co, Je–Aug (*DeL*); L. Waccabuc, Jl, *Zab* (AM); L. George, Aug, *Zab* (Ols–AM); NYC, Je, *Southwick* (EPV); **LI:** Wyandanch, Aug (Ols).

2241 **P. slossoni** Ball. **LI:** Bay Shore, Jl (Ols).

2244 **P. nebulosus** VanD. **LI:** Cold Sp. Harb. (Osb).

2246 **P. solidaginis** Wlk. (*humidus* VanD.). Cranberry L. (Osb); Batavia, Aug, *Kngt* (Ols); Buffalo, Aug (*EPV*–CU); W. Seneca (*EPV*); Chautauqua Co, Je (*DeL*); Ithaca, Aug (*Buys*); Phoenicia; W. Nyack, Jl (Ols); NYC, *Southwick* (EPV–CU); **LI**: Maspeth, Bay Shore, Jl–Aug, *Ols* (EPV).

2247 **P. ramosus** Baker. Gowanda, Aug (*EPV*).

THAMNOTETTIX Zetterstedt

2251 **T. kennicotti** Uhl. Cranberry L. (Osb); Cobble Hill, Oct (*EPV*); Batavia, Jl, *Kngt* (Osb, Ols); Buffalo, Hamburg, Colden, Elma, Gowanda, Salamanca, Je–Sep (*EPV*); Ithaca, Aug, *Baker* (CU); **LI**: Sea Cliff (EPV–CU); Winfield, Bay Shore, Aug–Sep, *Ols* (EPV); Huntington, Sep, *Schott* (Ols); Hempstead, Jl (*Ols*).

2252 **T. subcupraeus** Prov. Oliverea, Sep, *Dickerson* (AM).

2253 **T. brittoni** Osb. Boston, Aug (*EPV*); Cattaraugus Co, Jl, *Kngt* (Ols); Oliverea, 2300 ft., Sep, *Dickerson* (AM); **LI**: Yaphank, Bay Shore, Aug, *Ols* (Ball).

2263 **T. morsei** Osb. McLean, Aug, *Sib* (Buys); Ft. Montgomery, Bear Mt., Sep, *Schott* (Ols).

2265 **T. clitellarius** Say. Rochester, Jl, *Wendt* (Ols); L. Placid, Buffalo, Hamburg, Niagara Falls, Colden, Salamanca, Gowanda, May–Aug (*EPV*); Batavia, May–Jl, *Kngt* (Ols); Chautauqua Co, Je–Oct (*DeL*); Ithaca, Je–Jl, Ringwood, Je (*Buys*); Albany, Highland, Clinton Hgts., Phoenicia, Eagle Bridge, Salem, Mosholu (Osb); White Plains, Sep (*Ols*); Yorktown Hgts., Sep (Ols); **LI**: Forest Pk. (Osb); Flatbush, Jl (*Buys*); Cold Sp. Harb. (Osb); Maspeth, Flushing, North Beach, Bay Shore, Forest Hills, Je–Sep (Ols).

—— **T. cockerelli** Ball. Cranberry L. (Osb).

2266 **T. eburatus** VanD. Johnstown, Aug, *Alex* (EPV); Indian L., near Sabael, Aug, *Brb* (Ols); Cranberry L. (Osb); Boston, Salamanca, Jl (*EPV*); Bear Mt., Sep, *Schott* (Ols).

2269 **T. collaris** Ball. Hamburg (Osb); Chautauqua Co, Aug (*DeL*); Ithaca, *Hine* (Osb); NYC, *Park* (Ball).

2275 **T. belli** Uhl. Cranberry L. (Osb); "NY" (Osb–NYS).

2275a **T. belli** var. **gilletti** VanD. Speculator, Colden, Je–Jl (*EPV*).

—— **T. belli** var. **brunneus** Osb. Cranberry L. (Osb).

2278 **T. aurantiacus** Prov. Speculator, Aug (EPV).

—— **T. waldanus** Ball. Cranberry L. (Osb).

2292 **T. chlamydatus** Prov. L. Placid, Aug, *EPV* (Osb); Johnstown, Je, *Alex* (EPV).

2305 **T. melanogaster** Prov. Cranberry L. (Osb); Batavia, Jl, *Kngt* (Ols); Hamburg, Buffalo, Lancaster, Elma, Gowanda, Je–Sep (*EPV*); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*); McLean, Jl (Buys); White Plains, Je, *Ols* (Ball); **LI**: Sea Cliff (EPV–CU).

2307 **T. decipiens** Prov. Cranberry L. (Osb); L. Placid, Ausable R., Aug–Sep (*EPV*); Mountain View, Sep, *Not* (Dickerson–AM); McLean, Sep, *Sib* (Buys).

2312 **T. fitchii** VanD. Buffalo, Lancaster, Colden, Lawtons, Albion, Gowanda, Hamburg, Aug–Sep (*EPV*); Chautauqua Co, Sep (*DeL*); Phoenicia

(Osb); White Plains, Je, *Ols* (DeL); **SI; LI:** Cold Sp. Harb. (Osb); Maspeth, Sea Cliff, Winfield, Je–Sep, *Ols* (Ball); Flushing, Bay Shore, Aug–Oct (*Ols*).

—— **T. pallidulus** Osb. Cranberry L. (Osb).

—— **T. smithi** VanD. Cranberry L. (Osb).

—— **T. ciliatus** Osb. Cranberry L. (Osb).

2314 **T. nigrifrons** Forbes (*perpunctata* VanD.). Batavia, Jl, *Kngt* (Ball); Hamburg, Buffalo, Lancaster, Aug–Sep (*EPV*); Chautauqua Co, Jl–Sep (*DeL*); NYC; **LI:** Sea Cliff (EPV–CU); Newtown Hgts., *Ols* (EPV); Maspeth, Jl, Oct, *Ols* (DeL); Bay Shore, Jl, *Ols* (Ball).

2318 **T. inornatus** VanD. Ausable R., Lancaster, Buffalo, Jl–Sep (*EPV*); Indian L., near Sabael, Aug, *Brb* (Ols); Batavia, Sep, *Kngt* (Ols); Chautauqua Co, Aug (*DeL*); Ithaca, McLean, Jl (*Buys*); Salem (*Osb*); **LI:** Sea Cliff, Aug, *Ols* (Ball).

2319 **T. placidus** Osb. Ausable R., L. Placid, Aug (*EPV*); Cranberry L. (Osb).

2320 **T. cypraceus** Osb. Cranberry L. (Osb); Fulton Co, Sep, *Alex* (EPV); Hamburg, Buffalo, Jl–Oct (*EPV*).

CHLOROTETTIX Van Duzee

2324 **C. unicolor** Fitch. Lewiston; Cranberry L. (Osb); Keene Val., Saranac Inn (Osb); Rochester, Aug, *Baker* (CU); Sodus Pt., Aug (*Buys*); L. Placid, Hamburg, Buffalo, Niagara Falls, Lancaster, Gowanda, Je–Sep (*EPV*); Batavia, Jl–Aug, *Kngt* (Osb, Ols); Chautauqua Co, Aug (*DeL*); Ithaca, Je–Aug, McLean, Jl (*Buys*); White Plains, Jl (*Ols*); Phoenicia, Eagle Bridge, Salem, Mosholu; **SI; LI:** Cold Sp. Harb., Oyster Bay, Jamaica (Osb); Hempstead, Winfield, Flushing, Jl, *Ols* (EPV); Bay Shore (*Ols*); Central Pk., Je, *Shoe* (Ols); Kings Pk., Jl, *Bell*, Coram, Jl, *Eng* (Ols).

2327 **C. tergatus** Fitch. L. Placid, Buffalo, Hamburg, Lancaster, Jl–Aug (*EPV*); Batavia, Jl–Aug, Portage, Aug, *Kngt* (Ols); Chautauqua Co, Jl (DeL); Ithaca, Jl (*Buys*); W. Nyack, Aug–Sep (*Ols*); Karner, Eagle Bridge, Salem, Nassau, Mosholu, NYC (Osb); **SI; LI:** Cold Sp. Harb., Jamaica (Osb); Hempstead, Jl (Ols); Maspeth, Aug (*Ols*).

2329 **C. viridius** VanD. L. Placid (EPV–CU); W. Nyack, Sep (*Ols*); NYC, Jl, *Southwick* (EPV); **SI** (EPV); **LI:** Cold Sp. Harb., Jamaica (Osb); Bay Shore, Canarsie, Jl, Sep, *Ols* (EPV); Floral Pk., Sep, *Bell* (Ols); Glen Head, Sep, *Bade* (Ols); Sea Cliff, Aug (*Ols*).

2331 **C. galbanatus** VanD. Chautauqua Co, Aug (*DeL*); Nassau, Salem (Osb); W. Nyack, Sep, White Plains, Je (*Ols*); **SI:** Ft. Wadsworth, Jl, *Bs* (Ols); **LI:** Jamaica, Sea Cliff (EPV); Maspeth, *Ols* (EPV); Bay Shore, Je, Sep (*Ols*); Pennequid Barrens, Coram, Jl, *Eng* (Ols); Hempstead, Wyandanch, Aug–Sep (*Ols*).

2332 **C. balli** Osb. Boston, Hamburg, Gowanda, Salamanca, Jl–Sep (*EPV*); Chautauqua Co, Aug (*DeL*); **LI:** Jamaica, Aug (Osb).

2336 **C. lusorius** O. & B. Cranberry L. (Osb); Ausable R., L. Placid Club, Niagara Falls, Hamburg (*EPV*); Chautauqua Co, Aug (*DeL*); Phoenicia (EPV); Poughkeepsie (Osb).

JASSUS Fabricius

2340 **J. clitorius** Say. Albion, Niagara Falls, Buffalo, Salamanca, Gowanda, Jl–Sep (*EPV*); Batavia, Aug, *Kngt* (Ols); Hamburg (*Osb*); Chautauqua Co, Aug (*DeL*); Ithaca, Aug (*Buys*); L. George, Aug (AM); Karner, Salem (Osb); Phoenicia (EPV); Mosholu (Bno); **SI; LI:** Cold Sp. Harb., Jamaica (Osb); Hempstead, North Beach, Flushing, Bay Shore, Maspeth, Wyandanch (Ols); Flatbush, Aug–Sep (AM).

PARACOELIDEA Baker

2353 **P. tuberculata** Baker. **LI:** Oyster Bay (Osb).

CICADULA Zetterstedt

2356 **C. punctifrons** Fall. Lancaster, Jl, *EPV* (Baker); Gowanda, Aug (*EPV*); Ithaca, Jl (Baker–CU); Callicoon, Jl, *Ds* (Ols).

2356a **C. punctifrons** var. **repleta** Fieb. (*americana* VanD.). Batavia, Aug, *Kngt* (Ball); Keene Val. (Osb–NYS); Lancaster, Buffalo, Hamburg, Colden, Gowanda, Jl–Aug (*EPV*); Ithaca, Jl (*Buys*).

2358 **C. variata** Fall. Cranberry L. (Osb); L. Placid, Lancaster, Lime L., Hamburg, Elma, Phoenicia, Je–Sep (*EPV*); Batavia, Jl, *Kngt* (Osb); Chautauqua Co, Jl (*DeL*); Ithaca, Je (*Buys*); Nassau (Osb); Oliverea, Sep (AM); W. Nyack, Je, *Ols* (DeL); **LI:** Maspeth, *Ols* (Ball); Flushing, Sep, *Winters*, Bay Shore, Jl–Sep, *Ols* (Ball); Newtown Hgts., Je, *Ols* (EPV).

2359 **C. lepida** VanD. Sodus Pt., Aug, *Buys*; Ithaca, Aug (Baker–CU); NYC, Je, *Southwick* (EPV).

2362 **C. sexnotata** Fall. Cranberry L. (Osb); Saranac Inn, Jl, *Ndm* (Osb); Axton, L. Placid, Hamburg, Buffalo, Je–Aug (EPV); Big Moose, Keene Val., Karner, Nassau, Eagle Bridge, Salem (Osb); Sodus Pt., Aug (*Buys*); Batavia, Jl–Aug, *Kngt* (Ball); McLean Bogs, May, Ithaca, Je (*Buys*); Phoenicia, Kingston (EPV); Oliverea, Sep, *Dickerson* (AM); **LI:** Cold Sp. Harb., Jamaica (Osb); Maspeth, Bay Shore, May–Jl, *Ols* (EPV); North Beach, Flushing, Je, Oct, *Ols* (Ball); Forest Hills, Yaphank, Je, *Ols* (DeL); Orient, Sep, *Schott* (Ols).

2364 **C. divisa** Uhl. Saranac Inn, Jl, *Ndm* (Osb).

2368 **C. slossoni** VanD. Cranberry L. (Osb); L. Placid, Clarence, Hamburg, Lancaster, Gowanda, Jl–Sep (*EPV*); Chautauqua Co, Aug (*DeL*); High Bridge, NYC, Je, *Southwick* (EPV–CU); **LI:** Forest Hills, Flushing, Je, *Ols* (DeL).

2369 **C. potoria** Ball. "NY" (VanD. Cat.).

—— **C. pallida** Osb. Cranberry L. (Osb).

BALCLUTHA Kirkaldy

2370 **B. punctata** Thunb. Axton, Je, *M&H* (EPV–CU); Cranberry L. (Osb); L. Placid, Buffalo, Hamburg, Colden, Gowanda, Stamford, May–Aug (*EPV*); Sodus Pt., May, Aug (*Buys*); Labrador L., May (*Buys*); Batavia, Ap, Je, *Kngt* (DeL); Portage, May–Aug, *Kngt* (Laws); Ithaca, May–Aug, McLean, May (*Buys*); Albany, Poughkeepsie (Osb);

Phoenicia, Kingston (EPV); Oliverea, Aug, *Dickerson* (AM); Slide Mt., Sep, *Dickerson* (AM); Ft. Montgomery, Sep, *Schott* (Ols); White Plains, W. Nyack, Ap–May, *Ols* (DeL); **LI**: Yaphank, May, *Ols* (DeL); Jamaica, Aug (*Osb*).

2371 **B. osborni** VanD. Summit of Mt. Whiteface, Aug, *EPV* (Osb); W. Nyack, Je, *Ols* (DeL); Colden, Lancaster, Hamburg, Gowanda, Jl–Aug (*EPV*); **LI**: Sea Cliff (EPV–CU).

2372 **B. confusa** G. & B. Hamburg, Aug (*EPV*); Ithaca, Jl–Aug (Baker–CU).

2373 **B. impicta** VanD. Cranberry L. (Osb); Hamburg, Lancaster, Gowanda, Stamford, Jl–Aug (*EPV*); Portage, Aug, *Kngt* (DeL); Ithaca, Jl (Baker–CU); **LI**: Maspeth, May, North Beach, Je, *Ols* (EPV).

2373a **B. impicta** var. **flava** Baker. Ithaca, Jl–Aug (Baker–CU).

EUGNATHODUS Baker

2377 **E. abdominalis** VanD. **LI**: Sea Cliff (EPV–CU).

SUBFAMILY TYPHLOCYBINAE [22]

ALEBRA Fieber

2380 **A. albostriella** Fall. Cranberry L. (Osb); Batavia, Aug, *Kngt* (DeL); Hamburg, Kingston, Jl–Aug (*EPV*); Ithaca, Ap–May (*Buys*); **LI**: Maspeth, Bay Shore, Yaphank, May–Jl, *Ols* (DeL).

2380a **A. albostriella** var. **fulveola** H.-S. (*aurea* Walsh). Lancaster, Hamburg, Elma, Gowanda, Salamanca, Je–Aug (*EPV*); Phoenicia, Kingston; **LI**: Jamaica (EPV).

2382 **A. fumida** Gill. Cranberry L., *Htly* (Osb&DeL); Buffalo, Hamburg, Boston, Elma, Je–Aug (*EPV*); Ithaca, Jl (Gill–CU).

DIKRANEURA Hardy

2384 **D. cruentata** Gill. Ithaca, Ap–May, Aug (*Buys*, Gill–CU); Cranberry L. (Osb).

2386 **D. mali** Prov. (*communis* Gill.). Summit of Mt. Whiteface, Lancaster, Hamburg, Buffalo, Conesus L., May–Aug (*EPV*); Batavia, Aug, *Kngt* (DeL); Ithaca, Jl (Gill–CU); White Plains, May–Je, *Ols* (DeL); Phoenicia (*EPV*); **LI**: Maspeth, Flushing, Yaphank, May–Oct, *Ols* (DeL); Sea Cliff (EPV–CU).

2393 **D. fieberi** Lw. Cranberry L. (Osb); Sodus Pt., Aug (*Buys*); Batavia, Aug, *Kngt* (DeL); Hamburg, Lancaster, Lawtons, Buffalo, Je–Sep (*EPV*); Ithaca (Gill, *Buys*); McLean (*Buys*); White Plains, Je, *Ols* (DeL); **LI**: Forest Hills, Je, *Ols* (DeL); Maspeth, *Ols* (EPV, DeL); Flatbush, Nov, *Schott* (Ols).

EMPOASCA Walsh

2394 **E. trifasciata** Gill. Lancaster, Gowanda, Aug (*EPV*).

2395 **E. smaragdula** Fall. Cranberry L. (Osb); Sodus Pt., Aug, *Buys* (McAtee); Buffalo, Hamburg, Je–Sep (*EPV*); McLean, Jl, *Buys* (McAtee); Salem (Osb); Oliverea, Aug, *Diven* (AM); White Plains, Je, *Ols* (DeL).

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[22] Considered as a tribe—Typhlocybini—in Van Duzee's catalog, but by several recent workers considered as a subfamily and therefore so used here.

2399 **E. maligna** Walsh (*unicolor* Gill.). Hamburg, Salamanca, Jl–Aug (*EPV*); **LI:** Sea Cliff (EPV–CU).

2398 **E. obtusa** Walsh. Batavia, Je–Sep, *Kngt, Morr* (Osb); Hamburg, Jl–Sep (*EPV*); Ithaca, *Morr* (Osb); Phoenicia, Kingston (EPV); White Plains, Je, *Ols* (DeL); **LI:** Maspeth, *Ols* (EPV); Yaphank, North Beach, Hempstead, Je–Sep, *Ols* (DeL).

—— **E. aureoviridis** Uhl. Cranberry L. (Osb).

2400 **E. unica** Prov. (*splendida* Gill.). Gowanda, Aug (*EPV*); Ithaca, Je, *Buys* (McAtee).

2401 **E. atrolabes** Gill. Cranberry L. (Osb); L. Placid, Gowanda, Salamanca, Jl–Aug (*EPV*).

2406 **E. coccinea** Fitch. Cranberry L. (Osb); "NY" (Fitch, Wlk–Brit. Mus.).

2418 **E. alboneura** Gill. "NY" (EPV); **LI:** Jamaica, *EPV* (NYS).

2421 **E. fabae** Harr. (*mali* Le B., *viridescens* Walsh, *consobrina* Walsh, *malefica* Walsh). APPLE LEAF HOPPER. Cranberry L. (Osb); Batavia, Jl–Aug, *Kngt* (DeL); Fulton, Buffalo, Phoenicia, Hamburg, Lancaster, Geneva, Je–Aug (*EPV*); Waterville, Aug, *Hawl* (EPV); Ithaca; **SI** (EPV); **LI:** Sea Cliff (EPV–CU); Bay Shore, Forest Hills, Jl–Oct, *Ols* (DeL).

2422 **E. flavescens** Fab. Near Ausable R., Hamburg, Je–Oct (*EPV*); Sodus Pt., Aug, *Buys* (McAtee); Batavia, Oct, *Kngt* (DeL); Ithaca, Je–Jl, *Buys* (McAtee); McLean, Jl, *Buys* (McAtee); **LI:** Sea Cliff (EPV–CU); Maspeth, Yaphank, Aug–Sep, *Ols* (DeL).

2424 **E. birdii** Godg. Cranberry L. (Osb); Batavia, Aug, *Kngt* (DeL); Hamburg, May (*EPV*); Ithaca, Aug (Gill–CU); Albany (Osb–NYS); **LI:** Lynbrook, Ap, *Nic*, Queens Village, Mar, *Schott* (DeL).

TYPHLOCYBA Germar

(*Eupteryx* Curtis)

2426 **T. collina** Flor. Fredonia, Nov, *Cy* (EPV).

—— **T. melissae** Curt. Batavia, Aug, *Kngt* (DeL); **LI:** Maspeth, Newtown Hgts., May–Je (*Ols*).

2427 **T. vanduzeei** Gill. Cranberry L. (Osb); Isham House, Adirondacks, Aug (*EPV*); Hamburg, Jl–Aug, *Alex* (*EPV*, Gill).

2429a **T. flavoscuta** var. **nigra** Osb. Cranberry L. (Osb); **LI:** Jamaica, Oct 20, 1904 (Osb). The synonymy is McAtee's.

2429 **T. flavoscuta** Gill. Cranberry L. (Osb); L. Placid, Hamburg, Colden, Gowanda, Je–Aug (*EPV*); Sodus Pt., Aug, McLean, Jl, Ithaca, Je (*Buys*); Phoenicia (Osb); **LI:** Sea Cliff (EPV–CU); Wyandanch, Oct, *Schott* (DeL); Hempstead, Sep, *Ols* (DeL).

EMPOA Fitch

(*Typhlocyba* Germar)

2430 **E. querci** Fitch. Cranberry L. (Osb); Mt. Whiteface, Stamford, Lancaster, Gowanda, Phoenicia, Kingston, Jl–Aug (*EPV*); Ithaca, Oct (Osb–Morr); Slide Mt., Sep, *Diven*; Bronxville, *Wood* (Ols); **LI:** Sea Cliff (EPV–CU).

2430a **E. querci** var. **gillettei** VanD. (*bifasciata* G. & B.). Essex Co, Jl, *Not* (DeL); Cranberry L. (Osb); L. Placid, Hamburg, Lancaster, Gowanda, Phoenicia, Kingston, Aug (*EPV*); Batavia, Je–Aug, *Kngt* (DeL); **LI:** Maspeth, Je, *Ols* (DeL).

2433 **E. ulmi** L. Albany, Oct (Gill).

2435 **E. tenerrima** H.-S. Cranberry L. (Osb); Ausable R., Aug (*EPV*).

2436 **E. lethierryi** Edws. Cranberry L. (Osb); Hamburg, Jl–Aug (*EPV*).

2437 **E. rosae** L. ROSE LEAF HOPPER. Cranberry L. (Osb); L. Placid, Buffalo, Hamburg, Je–Oct (*EPV*); Batavia, Jl–Sep, *Kngt* (DeL, Osb); Ithaca, Oct, *Morr* (Osb); Ghent, Oct (Felt); Albany, *EPV* (NYS); **LI:** Sea Cliff (EPV–CU); Maspeth, Oct, *Ols* (DeL).

HYMETTA McAtee

2440 **H. trifasciata** Say. Lancaster, Hamburg, Gowanda, May–Sep (*EPV*); Batavia, Aug, *Kngt* (DeL); Ft. Montgomery, Sep, *Schott* (Ols).

ERYTHRONEURA Fitch

2441 **E. tricincta** Fitch. Rochester, Jl, *Wendt* (DeL); Batavia, Aug, *Kngt* (DeL); Lancaster, Jan (div.); Ithaca, Aug (Gill–CU).

2443 **E. hartii** Gill. Bronxville, Aug, *Wood* (Ols).

2445 **E. comes** Say. GRAPE LEAF HOPPER. Cranberry L. (Osb); Batavia, Aug, *Kngt* (Osb); Buffalo, Hamburg, Ap–May (*EPV*); Albany, Oct (NYS); **LI:** Sea Cliff (EPV–CU); North Beach, Maspeth, Flushing, Mar–Ap, *Ols* (EPV); Forest Pk., Yaphank, May, *Ols* (DeL); Lynbrook, Ap 27, *Nic* (DeL).

2445a **E. comes** var. **vitifex** Fitch. Ithaca, Ap, Aug, *Buys* (McAtee); Pawling, *ALMarshall* (McAtee).

2445b **E. comes** var. **ziczac** Walsh. Lancaster, Lawtons, Gowanda, Stamford, Jl–Oct (*EPV*).

2445c **E. comes** var. **vitis** Harr. Batavia, Aug, *Kngt* (DeL); Lancaster, May (*EPV*); Rochester, Jl, *Wendt* (Ols); Ithaca, May, Aug, *Buys* (McAtee, Gill–CU); **LI:** Aqueduct, May, *Ols* (DeL); North Beach, Yaphank, Mar, May, *Ols*.

—— **E. comes** var. **corona** McAtee. Hamburg, Aug (*EPV*).

2445d **E. comes** var. **basilaris** Say. "NY" (Osb, McAtee); Gowanda, Aug (*EPV*); Lancaster, Aug (*EPV*); Ithaca, May, *Buys* (McAtee).

2445f **E. comes** var. **rubra** Gill. Batavia, Aug, *Kngt* (DeL); **LI:** Brooklyn, Forest Pk., Mar, Oct, *Ols* (DeL).

2445g **E. comes** var. **maculata** Gill. **LI:** Forest Pk., Maspeth, Mar, *Ols* (DeL).

—— **E. comes** var. **gemina** McAtee. Ithaca, Aug, *Buys* (McAtee).

2445i **E. octo-notata** Walsh. Ithaca, Jl, *MacG* (Gill–CU); **LI:** Sea Cliff (EPV–CU).

2446 **E. illinoiensis** Gill. Hamburg, *EPV* (Osb).

2447 **E. obliqua** Say. Cranberry L. (Osb); L. Placid, Hamburg, Colden, May–Sep (*EPV*); Buffalo, May–Sep (*EPV*); Ithaca, Ap, *Buys* (McAtee, Gill–CU); **LI:** Sea Cliff (EPV).

2447a **E. obliqua** var. **dorsalis** Gill. Colden, Stamford, May–Aug (*EPV*); **LI:** Sea Cliff (EPV–CU).

2447c **E. obliqua** var. **fumida** Gill. Gowanda, Stamford, Jl–Aug (*EPV*); **LI**: Sea Cliff (EPV–CU).

—— **E. obliqua** var. **noevus** Gill. Cranberry L. (Osb).

2448 **E. vulnerata** Fitch. Lancaster, Aug (*EPV*); Ithaca, Aug (Gill–CU); Albany, Oct, *EPV* (NYS); **LI**: Sea Cliff (EPV–CU).

2448a **E. vulnerata** var. **nigra** Gill. Lancaster, Aug (*EPV*).

2450 **E. crevecoeuri** Gill. "NY" (McAtee, EPV–CU).

FAMILY FULGORIDAE

Compiled by Z. P. METCALF

SUBFAMILY DICTYOPHARINAE

DICTYOPHARA Germar

2462 **D. microrhina** Wlk. **SI**, Aug (EPV, Ds, Zab–AM); **LI**: Aqueduct, Aug (Ds); Maspeth, Sep (Ols); New Lots, *Zab* (AM).

2463 **D. lingula** VanD. **SI**, Aug–Sep (Ds); **LI**: Maspeth, Sep (Ols).

SCOLOPS Schaum

2466 **S. sulcipes** Say. Wells (Yg); Cranberry L. (Osb); White L., *Zab* (AM); L. Placid, Aug (EPV); Lancaster (EPV); Nassau, Salem, Albany, Karner (NYS); Kingston (EPV); Phoenicia (EPV); New Baltimore (Yg); W. Nyack, Sep; Mosholu, West Farms, Kissena L. (AM); **SI**, Jl (Ols); **LI**: Kissena Pk., Maspeth, Winfield, Port Washington, Jl–Sep (Ols); Aqueduct, Je, *Shoe*; Sea Cliff, Aug, Forest Hills, Sep (Ols).

2469 **S. desiccatus** Uhl. **SI** (Ds); also other localities (Ols).

2470 **S. perdix** Uhl. **LI**: Bay Shore, Maspeth, Winfield, Aug–Sep (Ols).

2477 **S. angustatus** Uhl. Ithaca (CU); Mosholu (Sm); Van Cort. Pk., Aug; **SI** (EPV); **LI**: Cold Sp. Harb., Jamaica (EPV); Winfield, Wyandanch, Rockaway, Maspeth, Jl–Aug (Ols); Orient, Flatbush, Jl, Aug, *Zab* (AM).

PHYLLOSCELIS Germar

2484 **P. atra** Germ. CRANBERRY TOAD BUG. Carmel, Aug (AM); White Plains (Ols); **LI**: Sea Cliff (CU); Calverton, Riverhead (Sirrine & Fulton).

2484a **P. atra** var. **albovenosa** Melich. White Plains (Ols); Cold Sp. Harb., Sep (Ds).

2485 **P. pallescens** Germ. **LI** (Sirrine & Fulton).

SUBFAMILY ACHILINAE

EPIPTERA Metcalf

2498 **E. colorata** VanD. Gowanda (EPV).

2499 **E. opaca** Say. Phoenicia (EPV); near L. Erie (Say).

2502 **E. slossoni** VanD. Cranberry L. (Osb).

2503 **E. septentrionalis** Prov. **LI**: Bay Shore, Sep (Ols); Calverton, Sep (Ds).

2504 **E. floridae** Wlk. **LI**: Bay Shore, Aug (Ols); Wyandanch, Jl, *Schott.*

2505 **E. variegata** VanD. **LI**: Bay Shore, Sep (Ols).

—— **E. brittoni** Metc. West Pt., Sep.

CATONIA Uhler

2507 **C. nava** Say. Gowanda, Hamburg, Aug.

2508 **C. cinctifrons** Fitch. **LI:** Sea Cliff (EPV); Melville, Wyandanch, Sep, Oct, *Schott*; Forest Hills, Sep (Ols).

2510 **C. picta** VanD. **LI:** Huntington, Sep, *Schott*.

2511 **C. grisea** VanD. Niagara Falls, Hamburg, Gowanda, Phoenicia (EPV); L. George, Aug–Sep, *Zab* (AM).

2512 **C. pumila** VanD. **LI:** Jamaica (EPV).

2514 **C. impunctata** Fitch. Buffalo, Colden, Phoenicia (EPV); L. George, Sep; Ramapo, Jl (Ds); **LI:** Bergen I., Orient, Jl, Aug, *Zab* (AM); Wyandanch, Aug (Ols).

2515 **C. dimidiata** VanD. Phoenicia (EPV); Ft. Montgomery, Sep, *Schott*.

SUBFAMILY CIXIINAE

OLIARUS Stål

2528 **O. quinquelineatus** Say. Buffalo, E. Aurora (EPV); Rock City, Ithaca, Jl (Ds); Karner (EPV); **SI,** Je–Jl (Ols); **LI:** Pinelawn, May–Jl (Ds); Bay Shore, Yaphank, Je–Jl (Ols); Ft. Montgomery, Jl, Sep, Huntington, *Schott*.

2529 **O. placitus** VanD. **LI:** Flatbush, *Zab* (AM).

2531 **O. franciscanus** Stål. Niagara Falls, near Buffalo, Boston, Gowanda (EPV); Crugers, Jl (AM); White Plains, W. Nyack, Je (Ols); **LI:** Yaphank, Bay Shore, Flushing, Jl (Ols).

2540 **O. humilis** Say. Buffalo, Hamburg (EPV); Goshen, Carmel, Aug, Sep (AM).

2541 **O. cinnamomeus** Prov. "NY" (VanD. Cat.).

CIXIUS Latreille

2545 **C. misellus** VanD. Speculator, Wells (Yg); Cranberry L. (Osb); Buffalo, L. Placid, Salamanca, Gowanda, Hamburg, Chautauqua, Colden, Lewiston (EPV); Elizabethtown, Trenton Falls (NYS).

2546 **C. basalis** VanD. L. Placid, Hamburg, Gowanda, Salamanca (EPV); Phoenicia (NYS); L. George, *Zab* (AM); NYC (AM); **LI:** Flatbush, Jl, *Zab* (AM).

2547 **C. coloepium** Fitch. Mt. Marcy, Jl (Ols); Cranberry L. (Osb); Speculator, Blue Mt.; L. Placid, Lime L., Lewiston, Salamanca (EPV); Oliverea, Jl (Ols); **SI,** Jl (Ols).

—— **C. apicalis** Metc. Ithaca, Je.

OECLEUS Stål

2554 **O. borealis** VanD. Hamburg (EPV); **LI:** Yaphank, Port Washington, May, Jl, Sep (Ols).

MYNDUS Stål

2565 **M. pictifrons** Stål. Buffalo, Hamburg, Aug.

2566 **M. sordidipennis** Stål. Near Buffalo, Hamburg, Je, Jl, Colden, Je. **LI:** Lott Wood, Flatbush, Jl, *Zab* (AM).

SUBFAMILY **ISSINAE**

FITCHIELLA Van Duzee

2580 **F. robertsoni** Fitch. "NY" (VanD. Cat.).

BRUCHOMORPHA Newman

2583 **B. oculata** Newm. Ithaca (CU); Cranberry L., Jl, Aug (Osb); Speculator, Wells, *Yg*; Buffalo, Boston, Colden, Hamburg, Gowanda, Salamanca, Phoenicia (EPV); Salem (NYS); W. Nyack, Je (Ols).

2585 **B. dorsata** Fitch. "NY."

2588 **B. tristis** Stål. Niagara Falls (EPV).

APHELONEMA Uhler

2591 **A. histrionica** Stål. Cranberry L., Aug (Osb); Hamburg, L. Placid, Cobble Hill, Lancaster, Buffalo (EPV).

THIONIA Stål

2634 **T. bullata** Say. Niagara Falls, Gowanda, Hamburg (EPV); **LI:** Maspeth, Jl, Sep, Port Washington, Sep (Ols); Flatbush, Aug, *Zab* (AM); Aqueduct, Jl (Ds).

SUBFAMILY **ACANALONIINAE** Amyot and Serville

ACANALONIA Spinola

2639 **A. bivittata** Say. Ithaca (Ols, CU); Schenectady (Ols); Albany, Karner (Yg); Phoenicia (EPV); Salem (NYS); Poughkeepsie (CU); West Pt., Sep, *Robn* (Ds); Ft. Montgomery, Jl (Ds); W. Nyack, Sep (Ols); Mosholu; Bryn Mawr Pk. (AM); **SI** (EPV); **LI:** Bay Shore, Maspeth, Winfield, Sea Cliff, Wyandanch, Port Washington, Pelham Parkway, Yonkers, Bayville, Jl–Oct (Ols); Promised Land, Wading R., Southold, Amagansett, Pinelawn, Yaphank, Brooklyn, Flushing, Aug–Oct (Ds).

SUBFAMILY **FLATINAE** Spinola

ORMENIS Stål

2649 **O. pruinosa** Say. MEALY LANTERN FLY. Rochester, *Wendt*; Buffalo, Gowanda, Lancaster (EPV); Ithaca (Ols); Albany; Nassau, Troy (NYS); Normanskill, *Leon*; Poughkeepsie; W. Nyack, Aug (Ols); Bronxville; NYC (Ols); West Farms (AM); Kingston; Bronx, Aug (Ols); **LI:** Maspeth, Jl, Aug (Ols); Yaphank, Wading R., Ft. Montgomery, Fire Place, Jl–Oct (Ds); Wyandanch, Port Washington, Jl–Aug (Ols).

2656 **O. septentrionalis** Spin. Mt. Sinai (Ds); Albany; Poughkeepsie; White Plains, Sep, Dunwoodie, Yonkers, Sep (Ols); West Farms, Aug (AM); MacLean Ave., NYC, Aug (Ols); **SI,** Jl–Oct (Ds); **LI:** Sea Cliff (EPV); Jamaica (NYS); Syosset (NYS); Maspeth, Jl, Sep, Flushing, Sep (Wlk); Wading R., Orient, Aug–Oct (Ds); Yaphank.

SUBFAMILY **DERBINAE** Spinola

PATARA Westwood

2671 **P. vanduzei** Ball. Cranberry L., *Htly* (Osb&DeL). Gowanda (EPV).

CEDUSA Fowler

2672 **C. vulgaris** Fitch. L. Placid, Buffalo, Boston, Hamburg, Salamanca, Ithaca (EPV); Batavia, *Kngt*; Otto; Karner, Albany (NYS); L. George, Aug, *Zab* (AM); Oliverea, Jl, *Shoe*; **LI:** Jamaica (EPV); Bay Shore, Yaphank, Jl–Sep (Ols).

2673 **C. obscura** Ball. Elma, Hamburg, E. Aurora (EPV); W. Nyack, Sep (Ols); **LI:** Bay Shore, Wyandanch, Jl–Aug (Ols).

—— **C. incisa** Metc. Cranberry L., *Htly* (Osb&DeL).

CENCHREA Westwood

2678 **C. uhleri** Ball. **LI:** Hempstead, Sep (Ols).

AMALOPOTA Van Duzee

2681 **A. uhleri** VanD. Lancaster, Niagara Falls (EPV); Hamburg, Gowanda, Aug (EPV).

2682 **A. fitchi** VanD. Colden, Buffalo (EPV).

ANOTIA Kirby

2683 **A. bonnetii** Kby. Buffalo (EPV); Karner (NYS).

2684 **A. westwoodi** Fitch. "NY" (Fitch).

2685 **A. burnetii** Fitch. Albion (EPV).

2687 **A. sayi** Ball. Albion (EPV).

OTIOCERUS Kirby

2689 **O. degeerii** Kby. New Russia, *Bdy*; Buffalo, Lancaster, Stamford, Salamanca, Gowanda (EPV); Phoenicia (EPV); **SI,** Aug (Ds); **LI:** Amagansett, Fire Place, Yaphank, Aug–Sep (Ds).

2690 **O. stollii** Kby. Buffalo Plains (EPV).

2691 **O. abbotii** Kby. Rye, Sep (Ds).

2693 **O. coquebertii** Kby. Old Forge (Yg); Cranberry L., Jl, Aug (Osb); Colden, Hamburg, Gowanda, Stamford, Salamanca, Buffalo, Poughkeepsie (EPV); S. Wales, *MCV*; Otto (Uhl); Ithaca (NYS); Phoenicia (NYS).

2695 **O. signoretii** Fitch. Lancaster, Hamburg, Conesus L. (EPV).

2696 **O. wolfii** Kby. Lancaster, Gowanda, Hamburg, Albion, Aug, Sep (EPV); **SI,** Aug (Ds).

2697 **O. amyotii** Fitch. **LI:** Port Washington, Bay Shore, Sep (Ols); Yaphank, Jl, *Wood.*

2698 **O. kirbyii** Fitch. "NY".

2699 **O. schellenbergii** Kby. Gowanda (EPV).

SUBFAMILY DELPHACINAE [22a]

STENOCRANUS Fieber

2701 **S. dorsalis** Fitch. Cranberry L., Jl (Osb); Buffalo, L. Placid, Colden, Hamburg, Gowanda, Aug, Sep (EPV); Phoenicia (EPV); Johnstown, Albany, Karner, Newport (NYS); W. Nyack, Sep (Ols); Ft. Montgomery, *Schott*.

2703 **S. felti** VanD. Cranberry L., Aug (Osb); Speculator (Felt).

2704 **S. palaetus** VanD. "NY" (EPV).

—— **S. vittatus** Stål. NYC (EPV).

KELISIA Fieber

2706 **K. axialis** VanD. Cranberry L., Aug (Osb); Lancaster, Gowanda, Aug (EPV); **LI**: Maspeth, Sep (Ols).

MEGAMELANUS Ball

2712 **M. elongatus** Ball. **LI**: Winfield, Jl (Ols).

2713 **M. spartini** Osb. **SI**; **LI**: Oyster Bay, Cold Sp. Harb. (Osb); Sea Cliff (EPV).

PROKELISIA Osborn

2715 **P. setigera** Osb. **LI**: Sea Cliff (EPV).

2716 **P. marginata** VanD. **SI** (WMG); **LI**: Rockaway Beach, Sep (Ols); Cold Sps., Sea Cliff (WMG).

MEGAMELUS Fieber

2717 **M. notulus** Germ. Colden, L. Placid, Hamburg, Lancaster, Concord, Buffalo, May–Jl (EPV).

2718 **M. piceus** VanD. Potsdam, Je, Jl (EPV); Lancaster, Clarence, Grand I. (EPV); Colden, Je, Jl (EPV); **LI**: Yaphank, Je–Jl (EPV).

—— **M. inflatus** Metc. NY.

PISSONOTUS Van Duzee

2723 **P. marginatus** VanD. East Lake (Yg); Lancaster, Hamburg, Phoenicia (EPV); NYC; **LI**: Sea Cliff (EPV); Ravenswood, Long Island City, *Southwick*.

2724 **P. basalis** VanD. Johnstown, *Alex*; Lancaster (EPV); White Plains; W. Nyack, Je (Ols).

2726 **P. ater** VanD. Speculator (Yg); Cranberry L., Aug (Ols); Grand I., Buffalo, Hamburg, Elma, Je (EPV).

2727 **P. divaricatus** Spnr. Middletown, *Spooner*.

2731 **P. delicatus** VanD. Niagara Falls, Aug; **LI**: Sea Cliff (CU).

2732 **P. guttatus** Spnr. Ithaca (CU).

2733 **P. dorsalis** VanD. Cranberry L., Aug (Osb); L. Placid, Lancaster, Colden, Boston, Phoenicia, Jl (EPV); Ithaca (CU).

[22a] F. Muir, of the Hawaiian Sugar Planters' Experiment Station, has assisted in the preparation of the list in the subfamily Delphacinae.

2735 **P. brunneus** VanD. Clarence (CU); Grand I. (EPV); White Plains (Ols); NYC, *Southwick*; **SI** (NYS); **LI**: Sea Cliff (CU); Jamaica (NYS); Maspeth, Je (Ols).

2736 **P. piceus** Spnr. Middletown, *Spooner*.

2737 **P. aphidioides** VanD. Elm L. (Yg); Salamanca, Colden, Niagara Falls, Hamburg, Boston, Buffalo, Jl–Aug (EPV); Ithaca (CU); Washingtonville (Yg); **LI**: Sea Cliff (CU).

PHYLLODINUS Van Duzee

2739 **P. nervatus** VanD. Newport (Yg); Buffalo, Lancaster, Hamburg, Colden, Je, Jl (EPV); Caroline to Harford (CU); White Plains, Je (Ols).

2743 **P. flabellatus** Ball. Ithaca; White Plains (Ols); **SI**, Aug (EPV); **LI**: Maspeth, Je, Aug (Ols).

LACCOCERA Van Duzee

2745 **L. vittipennis** VanD. Axton, Cobble Hill, L. Placid (EPV); Speculator, Corinth (Yg); Cranberry L., Aug (Osb).

STOBAERA Stål

2750 **S. tricarinata** Say. Lancaster, Hamburg, Lawtons, Jl (EPV); N. Evans, Oct (MCV); **LI**: Flushing, Winfield, Maspeth, Sep–Oct (Ols); Orient, Wyandanch, Sep, Oct, *Schott*.

2753 **S. pallida** Osb. **LI**: Oyster Bay (Osb).

LIBURNIELLA Crawford

2758 **L. ornata** Stål. Cranberry L., Jl–Aug (Osb); Hamburg, Jl (WMG); Lawtons, Buffalo, Oct (EPV); White Plains, W. Nyack, Je (Ols); **SI**, Oct (Ds); **LI**: Sea Cliff (EPV); Maspeth, Je (Ols).

DELPHACODES Fieber

(*Liburnia* Stål)

2762 **D. laminalis** VanD. Mt. Whiteface; L. Placid, Phoenicia (EPV).

2763 **D. lateralis** VanD. Lancaster, Colden, Niagara Falls, Hamburg, E. Aurora, Buffalo, Gowanda, Je–Oct (EPV).

2764 **D. kilmani** VanD. Colden, Elma, Buffalo, Hamburg, May–Je (EPV).

2766 **D. pellucida** Fab. Cranberry L., Aug (Osb); Saranac Inn, *Ndm*; Ithaca, Mt. Whiteface, Lancaster, Niagara Falls, Buffalo, Hamburg, May, Aug (EPV).

2768 **D. puella** VanD. Mt. Whiteface, Lancaster, L. Placid, Buffalo, Gowanda, Lawtons, Aug–Oct (EPV); **LI**: Sea Cliff (EPV); Wyandanch (Ols).

2769 **D. basivitta** VanD. White Plains (Ols).

2771 **D. osborni** VanD. Lancaster, Phoenicia, Aug (EPV).

2773 **D. campestris** VanD. Cranberry L., Je, Aug (Osb); Lancaster, Portage, Ithaca, Isham House, Kingston, L. Placid, Niagara Falls, Hamburg, Gowanda, Buffalo, Je–Aug (EPV); Karner (NYS); White Plains, May (Ols); **LI**: Maspeth, Yaphank, May (Ols).

2774 **D. furcata** Prov. About Buffalo (EPV).

2776 **D. detecta** VanD. NYC (EPV); **LI:** Sea Cliff (EPV).

2779 **D. foveata** VanD. Portage, Lancaster, Clarence, Hamburg, Je (EPV).

2780 **D. lutulenta** VanD. Axton, MacG; Speculator (Yg); Cranberry L., Aug (Osb); Buffalo, Ithaca, L. Placid, Portage Falls, Hamburg, Colden, Niagara Falls, Lawtons, Gowanda, Aug (EPV); W. Nyack, White Plains, May–Je (Ols); **LI:** Sea Cliff (EPV); Bay Shore, Maspeth, May–Jl (Ols).

2781 **D. obscurella** Bohm. Concord, Colden, Portage Falls (EPV).

2785 **D. incerta** VanD. Buffalo (EPV).

2790 **D. lineatipes** VanD. Lancaster, Buffalo, Hamburg, Jl, Oct (EPV).

2792 **D. nigridorsum** Crawf. White Plains, May (Ols).

2793 **D. dolera** Spnr. Ithaca (EPV).

PENTAGRAMMA Van Duzee

2807 **P. vittatifrons** Uhl. Axton, Je, *MacG*; Oswego (CU).

FAMILY CHERMIDAE

(*Psyllidae*)

SUBFAMILY LIVIINAE

LIVIA Latreille

2810 **L. maculipennis** Fitch. Speculator, L. Placid, Aug (EPV); Phoenicia, Aug, *EPV* (Patch); Oneida, Aug (NYS); Hamburg, Lawtons, Aug (EPV); Belden Hill, May, *Cy* (Yg); Karner, May (Felt); Nassau, Ap (Felt); Stony Pt., Ap (NYS); NYC (Felt); **LI:** Orient, Jl (NYS).

2812 **L. vernalis** Fitch. Speculator, Aug, *Yg* (EPV); Newport, Jl, *Yg*; L. Placid, Aug, *EPV* (NYS); Hamburg, Gowanda, Je–Sep (EPV); Stamford, Aug (EPV); Karner, Ap (NYS); Nassau, Ap (NYS); New Baltimore, Jl, *Yg*.

APHALARA Foerster

2815 **A. calthae** L. Hamburg, Aug (EPV); Hudson Falls, Jl, on Polygonum (Patch–NYS).

2818 **A. angustipennis** Crawf. Speculator, Jl, *Yg*, Karner, Je (Felt).

2822 **A. veaziei** Patch. Speculator, Aug, *Yg*; L. Placid, Aug, *EPV* (NYS); Cranberry L., Je–Jl (Osb); Colden, Je (EPV); Freeville, Jl, Caroline, Je (Patch); Karner, Je (NYS); Phoenicia, Aug, *EPV* (NYS); **SI,** Aug, *EPV* (NYS).

2826 **A. fascipennis** Patch. Mud Cr., Tompkins Co, Je (Patch).

SUBFAMILY PAUROPSYLLINAE

HETEROPSYLLA Crawford

—— **H. quassiae** Crawf. **LI,** Ap, on *Quassia* sp. (Crawford).

CALOPHYA Loew

2844 **C. nigripennis** Rly. Karner, Je, on white birch (Patch); N. Chatham, Je (Felt).

SUBFAMILY TRIOZINAE

TRIOZA Foerster

2857 **T. diospyri** (Ashm.). Buffalo, May 25, 1900 (EPV).

2860 **T. quadripunctata** Crawf. Canastota, Mar 12, hibernating on grass stems, *Faure* (Crawford).

2867 **T. tripunctata** Fitch. Axton, Je (M&H); Penn Yan, Sep, *Cy* (Felt); Karner, Ap (Patch); **LI**: Sea Cliff (CU); Jamaica, Oct, *Sirrine* (Crawford).

2869 **T. maura** Foerst. Cranberry L., *Htly* (Osb).

2869¼ **T. forcipula** Patch. Ithaca, May (Patch).

2870 **T. nigrilla** Crawf. Cranberry L., Aug (Osb).

SUBFAMILY PSYLLIINAE

PACHYPSYLLA Riley

2886 **P. venusta** O. S. Peekskill (Bt); vic. NYC (Bt).

2887 **P. celtidis-mamma** Rly. Ithaca, Sep (CU); Athens, Aug (Felt); vic. NYC (Bt).

2889 **P. celtidis-vesiculum** Rly. Ithaca (Crawford); Stony Pt., Ap (NYS); vic. NYC (Bt).

2890 **P. celtidis-gemma** Rly. Albion, May (CU); Rochester, Ap, *John Dunbar* (Felt); Ithaca, *Cy* (EPV); Kingston, Mar (CU); White Plains, May, Jl (Felt); vic. NYC (Bt).

—— **P. coagulata** Uhl. MS. Ithaca, Oct, *Dudley* (Uhl–CU).

PSYLLOPSIS Loew

2913 **P. fraxinicola** Foerst. Rochester, Je, on ash (NYS); Richfield Sps., Aug, on walnut (Crawford).

PSYLLIA Kirkaldy

2922 **P. pyricola** Foerst. PEAR-TREE PSYLLA. Bluff Pt.; W. Brighton, May; Lincoln, Ap; Lewiston, Oct; Mt. Morris; S. Byron; Ithaca, Je, Aug; Glenmont; Kinderhook; Menands; Clinton Hgts., Mar; Ghent; Medway; Athens, Je; Catskills; Ulster Co, Aug; Milton, Je; New Baltimore, May; **SI**: Annadale.

2924 **P. quadrilineata** Fitch. "NY" (Fitch).

2930 **P. striata** Patch. Elizabethtown, Aug (Patch); Cranberry Cr., Jl, abundant on yellow birch (Osb); L. Placid, Aug, *EPV* (Patch); Northville, Je (NYS); Mud Cr., McLean, Ithaca, Je–Aug (Patch); Karner, Aug (Patch).

2931 **P. carpinicola** Crawf. Barber Pt., Cranberry L., Jl, on yellow birch, white pine, and fire cherry (Osb); Karner, Je, on white birch (Felt).

2932 **P. cephalica** Crawf. Elizabethtown, Aug, on ironwood, *Yg*; L. Placid, Aug (NYS); Mud Cr., and several other localities, Tompkins Co (Patch); Karner, Je (NYS).

2933 **P. annulata** Fitch. Karner, Je, on white birch (NYS).

2936 **P. floccosa** Patch. Cranberry L., Barber Pt., *Childwold&Ranger* (Osb).

2938 **P. trimaculata** Crawf. L. Placid, Aug, *CSSheldon* (Crawford); Cranberry Cr., abundant on *Prunus pennsylvanica*; Elma, Gowanda, Salamanca (*EPV*).

2940½ **P. buxi** L. NYC, abundant on box hedge (Bks).

2942 **P. galeaformis** Patch. Speculator, Aug, *Yg*; Blue Mt., Jl (NYS); L. Placid, Aug, *EPV* (NYS); North Cr., Aug (NYS); Freeville, Jl (Patch); Karner, Mar (Patch); Stamford, Aug (*EPV*).

—— **P. quadrisignata** Wlk. "NY" (Wlk).

FAMILY **APHIIDAE** [23]

SUBFAMILY **APHIINAE**

Tribe **LACHNINI**

ANOECIA Koch

A. querci (Fitch). Ithaca, very common on leaves of red oak (Morr).

EULACHNUS Del Guercio

E. agilis (Kalt.). Albany, NYC, Jl, on pine (Gill–NYS).

DILACHNUS Baker

D. abietis (Fitch). L. Placid, Sep, *CHPeck* (NYS).

D. laricifex (Fitch). Ithaca, Je, on larch (Morr).

D. strobi (Fitch). Ithaca, on white pine (Morr, with query); **LI**: Wading R., May, on pine (Ols).

LONGISTIGMA Wilson

L. caryae (Harr.). S. Byron, Je, *JFRose* (NYS).

LACHNUS Burmeister

L. curvipes Patch. Old Forge, on balsam, Aug (Felt).

L. viminalis (Fonsc.) (*dentatus* Le B.). Poughkeepsie, May; Ossining, May (NYS); **LI**: Flushing, Sep, on willow (NYS).

Tribe **CALLIPTERINI**

PHYLLAPHIS Koch

P. fagi (L.). A woolly species which appears to be very common on the leaves of copper beech in various parts of the State; probably widely distributed: Albany, Tivoli, Rochester, Brewster, Tarrytown.

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[23] The present list is based upon one prepared by Dr. E. P. Felt several years ago, compiled from literature and from specimens and records in the New York State Museum, which has been further added to by the editor. A. C. Baker and P. W. Mason, of the United States Bureau of Entomology, have kindly rearranged the synonymy in the present list and have gone over the manuscript for possible errors. Dr. Edith M. Patch also has looked over the manuscript and made several changes and suggestions.

CALAPHIS Walsh

C. betulaecolens (Fitch). Buffalo, Je; Rochester, Je (Gill); E. Greenbush, Aug; Karner, *Leon* (Patch), on gray birch; Newark, Je; Cranberry L., on yellow birch (Osb); reported also from Newport, Geneva, Rochester, and Poughkeepsie, Je (Gill).

?C. betulae (Buckt.). Albany, Jl; Geneva, Je (Gill).

C. castaneae (Fitch). Albany, Ithaca, very common (Morr).

THERIOAPHIS Walker

T. bellus (Walsh). Rochester, Je, on *Quercus rubra* (Gill); Ithaca (Morr); White Plains, Nov (Ols); **LI:** Flushing, Oct, on *Quercus rubra* (Ols).

T. tiliae (L.). Geneva, Je (Gill); Ithaca, common (Morr).

T. ononidis (Kalt.). Albany, Geneva, Je–Jl (Gill).

EUCERAPHIS Walker

E. betulae (Koch). Geneva, Je (Gill); Ithaca, May (Patch); White Plains, Nov, on *Betula lutea* (Ols).

E. lineata Baker. Karner, on gray birch, *Leon* (Patch).

MONELLIA Oestlund

M. caryella (Fitch). Ithaca, very common on hickory (Morr).

M. costalis (Fitch). Watervliet, Aug, abundant on pignut, *Leon* (Patch).

MYZOCALLIS Passerini

M. alnifoliae (Fitch). "NY" (Fitch).

M. asclepiadis (Mon.). Geneva, Jl (Gill); Sheridan (Hayhurst).

M. discolor (Mon.). Ithaca, Je, very common and injurious on white oak (Morr); **LI:** Maspeth, Oct, *Quercus prinus.*

M. fumipenellus (Fitch) (*caryfoliae* Davis). "NY" (Fitch).

M. ulmifolii (Mon.). Common and frequently destructive on the American elm: Albany, Broome, Chautauqua, Fulton, Monroe, Montgomery, Oneida, Ontario, St. Lawrence, and Warren Counties, probably generally distributed throughout the State.

M. punctatellus (Fitch). "NY" (Fitch).

M. walshi (Mon.). Geneva, Je, on *Quercus rubra* (Gill).

DREPANAPHIS Del Guercio

D. acerifoliae (Thos.). A common, though rarely abundant, species on soft-maple leaves, probably widely distributed throughout the State since it has been recorded or reported from Albany, Dutchess, Herkimer, Rensselaer, Saratoga, Tompkins, and Westchester Counties. **LI:** Maspeth, Je, Oct, on *Acer saccharinum* (Ols).

DREPANOSIPHUM Koch

D. platanoides (Schrank). Ithaca, Je (Morr); **LI:** Orient, Jl, *Lath* (Felt). Sycamore, maple.

CHAITOPHORUS Koch

C. populifoliae Oest. Ithaca, on Carolina poplar (Morr).

C. viminalis Mon. Geneva, Jl (Gill).

PERIPHYLLUS Van der Hoeven

P. lyropictus (Kess.). It is presumably this species which has been extensively recorded in economic literature in recent years as *Chaitophorus aceris* L. Ogdensburg (JJDavis); Albany, Greene, and Ontario Counties. Probably this is the species which has been very destructive to Norway maples in many widely separated localities in the State.

P. negundinis (Thos.). BOX-ELDER APHID. Newport; Ithaca (Morr); Albany, Jl (Gill); Nassau. Box elder.

NEOTHOMASIA Baker

N. populicola (Thos.). Ithaca (Morr); Karner, Jl, abundant on the common aspen; **LI:** Maspeth, Nov, on *Populus* sp. (Ols).

CLAVIGERUS Szépligeti

C. smithiae (Mon.). **LI:** Wading R., May, on *Salix fragilis* (Ols); Winfield, Oct, on willow (Ols).

C. populifoliae (Fitch). "NY" (Fitch).

C. salicis (L.). Buffalo, Sep; Karner, Je (NYS).

C. saliceti (Kalt.). Ithaca, very common on willow (Morr).

Tribe APHIINI

ANURAPHIS Del Guercio

A. cardui (L.) (*pruni* Koch). Sheridan, *Hayhurst*; Geneva, Je (Gill); Ithaca, Oct (Morr); Schoharie, Je; Rensselaer.

A. crataegifoliae (Fitch). Sheridan, *Hayhurst*.

A. maidi-radicis (Fbs.). Albany, on aster (NYS).

A. persicae-niger (Smith). Portland (Sling).

A. roseus Baker (*sorbi* Am. auct.). ROSY APPLE APHIS. Very injurious in apple orchards, and probably generally distributed throughout the State.

A. tulipae Boyer (*gladioli* Felt). Berlin, on gladioli (Felt).

A. viburnicola (Gill.). **LI:** Maspeth, Je, on *Viburnum* sp. (Ols).

APHIS Linnaeus

A. asclepiadis Fitch. Sheridan, *Hayhurst*; Geneva (Gill).

A. carduella Walsh. Ithaca, Oct, on *Cirsium lanceolatum* (Morr).

A. cerasifoliae Fitch. Sheridan, *Hayhurst*; Geneva, Je (Gill); Ithaca (Morr); Albany, Je. Probably widely distributed on chokecherry.

A. cephalanthi Thos. **LI:** Wading R., May, on *Cephalanthus occidentalis* (Ols).

A. coreopsidis (Thos.). Sheridan, *Hayhurst*; **LI:** Maspeth, Aug, on *Bidens frondosa* (Ols).

A. forbesi Weed. **LI:** Maspeth, Je, on *Fragaria virginiana* (Ols).

A. gossypii Glover. MELON APHIS. Albany, Aug, *SHPeck*; Fredonia, *Hayhurst*; Menands, Aug (Felt); Ithaca; NYC, Jl (Gill); **LI:** Maspeth, Oct, on *Hibiscus syriacus* (Ols). Common and widely distributed in the State.

A. helianthi Mon. Ithaca, on sunflower (Morr); Blissville, Oct, Nov, on *Helianthus rigidus*. Probably widely distributed.

A. maidis Fitch. **LI:** Orient Pt., Nov, on corn, *Lath* (NYS).

A. lutescens Mon. **LI:** Winfield, Je, on milkweed (Ols).

A. pomi DeG. APPLE APHID. **LI:** Wading R. (Ols). A widely distributed, very common, and occasionally rather destructive, orchard pest.

A. pseudoavenae Patch. Ithaca, Mar, in greenhouse on wheat, *Griswold* (Patch).

A. rumicis L. BEAN APHID. Albany; Port Kent, May; Geneva, Je (Gill); Elmira, Sep, on buckwheat (Cy); Ithaca (Morr); **LI:** Maspeth, Je, on *Arctium lappa,* Oct, on *Chenopodium* sp. (Ols).

A. sanborni Patch. **LI:** Maspeth, May, on *Sambucus canadensis.*

A. spiraecola Patch. Albany; Geneva, Je–Jl (Gill).

A. salicicola Thos. Albany; Geneva, on willow (Gill).

A. illinoisensis Shimer. GRAPE-VINE APHID. Troy, Jl (*Leon*); Middletown, Aug (Chap). **LI:** Maspeth, Je, Jl (Ols). Sometimes injurious to grape.

BREVICORYNE Das

B. brassicae (L.). CABBAGE APHIS. Widely distributed throughout the State.

CAVARIELLA Del Guercio

C. pastinaceae (L.) (*Siphocoryne*). Ithaca, very common on wild parsnip (Morr); **LI:** Maspeth, Nov (Ols), on *Lonicera japonica.*

C. capreae Fab. **LI:** Maspeth, Jl, on cultivated parsnip (Ols).

HYSTERONEURA Davis

H. setariae (Thos.). **LI:** Maspeth, Nov (Ols), on *Digitaria sanguinalis.*

HYALOPTERUS Koch

H. atriplicis (L.). Fredonia, Jamestown, Lilly Dale (Hayhurst), on Chenopodium.

H. arundinis (Fab). MEALY PLUM APHID. Fredonia, on plum (Pergande); probably this species in Montezuma Marshes, *HDHouse* (Felt), on Phragmites; Ithaca, Je, *Cy* (Patch, as *pruni* Fab.).

H. trirhoda Wlk. Ithaca, Jl, on cultivated columbine, *Griswold* (Patch).

LIOSOMAPHIS Walker

L. rhois (Mon.) (*Rhopalosiphum, Amphorophora*). Ithaca, Je, on the terminal shoots and leaves of sumac (Morr).

RHOPALOSIPHUM Koch

R. rubiphila (Patch). Ashokan Reservoir, Je, abundant on wild raspberry plants affected with mosaic, *Leon* (Patch).

R. pseudobrassicae (Davis). TURNIP APHID. Geneva; Ithaca; **LI.** Probably widely distributed throughout the State, since it is readily confused with the common cabbage aphid, *Brevicoryne brassicae* (L.).

R. prunifoliae (Fitch) (*avenae* Fab. and Am. auctt.). APPLE GRAIN APHID. Reported from many localities, and undoubtedly present wherever wild or cultivated apple occurs in the State.

R. angelicae (DelG). **LI:** Maspeth, Aug (Ols), very abundant on *Artemisia absinthium.*

R. rufomaculata (Wils.). Ithaca, Dec, in greenhouse on *Chrysanthemum indicum* hybrid, *Griswold* (Patch).

AMPHOROPHORA Buckton

A. solani (Thos.). Port Jervis, Je (Felt); sometimes prevalent and injurious on potatoes (Felt). Dr. Patch writes: "*A. solani* Thomas of most American authors is only *Myzus persicae.* The type slide is not a Solanum species at all —probably accidental. The description of colony applies to another Solanum aphid."

FRANCOA Del Guercio

F. rosarum (Kalt.) (*Myzus rosarum* auct.). Ithaca, Oct, in greenhouse on rose, *Griswold* (Patch).

ILLINOIA Wilson

I. liriodendri (Mon.). Sometimes common on tulip leaves, at least in the vicinity of NYC (Felt).

I. pisi (Kalt.) (*Macrosiphum*). PEA APHID. Probably widely distributed throughout the State. Definitely recorded from: Albany; Rensselaer; **LI:** Floral Pk.; Wading R. Pea and red clover, often very injurious.

I. solanifolii (Ashm.) (*Macrosiphum*). POTATO APHID. Widely distributed throughout the State.

I. lilii (Mon.). **LI:** Orient, Aug, *Lath* (Patch), on *Lilium canadense.*

MACROSIPHONIELLA Del Guercio

M. sanborni (Gill.). Ithaca, Feb, on chrysanthemum (Patch).

TRITOGENAPHIS Oestlund

T. chrysanthemi Oest. Sheridan, *Hayhurst* (Felt).

T. rudbeckiae (Fitch). Probably widely distributed throughout the State. Bemis Hgts.; Albany, Je; Nassau; **LI:** Maspeth, Je–Nov, on *Silene noctiflora,* cultivated aster, goldenrod, Lactuca, *Xanthium canadense, Rudbeckia laciniata,* cultivated lettuce (Ols); Rockaway Beach, Jl, on goldenrod; Wading R., May, on *Antennaria neodioica.*

T. taraxici Kalt. Ithaca, Je, *Joh* (Patch); **LI:** Maspeth, Je, on dandelion (Ols).

T. solidaginis Fab. Probably widely distributed throughout the State. Albany, Jl, on aster (Gill).

MACROSIPHUM Passerini

M. cornelli Patch. Ithaca, throughout the year, in greenhouse on *Pelargonium quercifolium* hybrid, *P. odoratissimum, P. domesticum, P. graveolens, P. peltatum,* and *P. radula, Griswold* (Patch).

M. rosae (L.). **LI:** Maspeth, on rambler rose (Ols).

M. granarium Kby. (not *avenae*). ENGLISH GRAIN APHID. Doubtless widely distributed throughout the State. Canaseraga; Chatham; Hudson; Kinderhook; Niverville; Stone Ridge; **LI**: Glen Cove.

M. dirhodum Wlk. Ithaca, Mar, on greenhouse roses (Morr).

M. pseudodirhodum Patch. Ithaca, Ap, May, Nov, in greenhouse on roses, *Griswold* (Patch).

MYZUS Passerini

M. cerasi (Fab.). BLACK CHERRY APHID. Generally distributed throughout the State, definite records extending from Saranac Inn to Wading R., **LI.**

M. circumflexus (Buckt.). Ithaca, on liliaceous greenhouse plants in Mar and May (Morr).

M. persicae (Sulz.). GREEN PEACH APHID. Widely distributed throughout the State on greenhouse plants and on a variety of outdoor fruits and vegetables.

M. pseudosolani Theo. Ithaca, Jl, on potato, Nov, in greenhouse on *Verbena hybrida, Griswold* (Patch).

CRYPTOMYZUS Oestlund

C. ribis (L.). CURRANT APHID. Widely distributed throughout the State and destructive to currants; recorded from St. Lawrence Co southward to Westchester Co and across the State.

C. galeopsidis (Pass.). **LI**: Maspeth, Je–Aug, on Polygonum (Ols).

CAPITOPHORUS Van der Goot

C. fragaefolii Ckll. **LI**: Maspeth, Je (Ols), on *Fragaria virginiana.*

C. hippophoes Koch (*Rhopalosiphum*). **LI**: Maspeth, Nov, on *Polygonum pennsylvanicum.*

PHORODON Passerini

P. humuli (Schrank). HOP APHID. Probably widely distributed over the State, since it has been reported on hop in Cattaraugus, Dutchess, Madison, Montgomery, Otsego, and Schoharie Counties.

IDIOPTERUS Davis

I. nephrolepidis Davis. Ithaca, Feb, Mar, Dec, in greenhouse on Adiantum, *Nephrolepis exaltata* var. *bostoniensis*, Cyrtomium, and Pteris, *Griswold* (Patch).

SUBFAMILY **MINDARINAE**

MINDARUS Koch

M. abietinus (Koch). Star L., St. Lawrence Co, Je; L. Clear, Paul Smiths, Franklin Co, Elizabethtown, Je; Watertown, Jl; Mt. Kisco, Je, on balsam and Scotch pine (NYS); Warwick, Jl.

SUBFAMILY **ERIOSOMATINAE**

Tribe ERIOSOMATINI

COLOPHA Monell

C. ulmicola (Fitch). Known to occur in Onondaga, Genesee, Erie, Ontario, Washington, Albany, Rensselaer, and Westchester Counties, and probably moderately abundant and generally distributed throughout the State (Felt).

ERIOSOMA Leach

E. lanigerum (Hausm.). WOOLLY APPLE APHID, or ELM ROSETTE APHID. Widely distributed throughout the State from St. Lawrence and Essex Counties southward to Maspeth, **LI.** Apple, Crataegus, and elm, often injurious.

E. rileyi (Thos.). Probably generally distributed throughout the State, but recorded only from Watertown and Northville (Felt). Elm.

E. americanum Rly. ELM LEAF-CURL APHID. Probably generally distributed throughout the State, available records including from St. Lawrence and Essex Counties southward to Westchester Co and Maspeth, **LI** (Felt). Probably blamable for the early summer curling of American elm leaves (Felt).

E. ulmi (L.). The distribution of this species within the State is probably coincident with that of *E. americanum* Rly., but *E. ulmi* is probably less common (Baker & Mason); common on certain English elms (Patch).

GOBAISHIA Matsumura

G. ulmifuscus (Walsh). Reported from Warren, Ontario, Fulton, Greene, and Westchester Counties, but is presumably widely distributed in the State though rarely abundant (Felt). Produces a good-sized, somewhat irregular, gall on leaves of slippery elm (Felt).

TETRANEURA Hartig

T. graminis Mon. Albany, Sep (Felt), on heads of rice cut-grass, *Leersia* (*Homalocenchrus*) *oryzoides*; **LI:** Maspeth, on elm, Winfield, Je (Ols).

T. ulmisacculi Patch. ELM SACK GALL. Kenwood, May, *HDHouse* (Felt), gall on *Ulmus montana*; **LI:** Roslyn, Maspeth, Je (Ols).

Tribe PEMPHIGINI

MORDWILKOJA Del Guercio

M. vagabundus Walsh. Reported from Monroe, Washington, Saratoga, and Rensselaer Counties, and is probably rather generally and commonly present in sections of the State where poplars grow (Felt). Produces a very irregular, frequently massed, deformation of poplar leaves (Felt).

PEMPHIGUS Hartig

P. popularius Fitch. Saranac Inn, Jl, gall on poplar.

P. populicaulis Fitch. Ithaca, Albany, Je (Morr); **LI:** Mineola, Jl (Morr).

P. populiglobuli Fitch. New Rochelle, Je, *TJWade*, gall on Lombardy poplar.

P. populimonilis Rly. Alder Cr., Aug, gall on balm of Gilead.

P. populitransversus Rly. Rochester, Je (Gill); Cambridge, Jl; Albany, Je. Galls on cottonwood.

P. lactucae Fitch (*Tychea brevicornis* Hart, *Rhizobius lactucae*). A common lettuce root-louse, and probably rather generally distributed (Felt); Fredonia (Pergande).

Tribe MELAPHINI

MELAPHIS Walsh

M. rhois Fitch (*Pemphigus*). Little Falls, Sep (Felt); Clinton (Lint); Canandaigua, Sep (Felt); Schenectady, Sep (Lint). Produces a red-tinted pouch gall on sumac leaves. Has been observed in the lower Hudson Valley, and is probably generally distributed though comparatively rare (Felt).

Tribe PROCIPHILINI

NEOPROCIPHILUS Patch

N. aceris (Mon.) (*Pemphigus*). Union, Aug, rather injurious on maple, *Cy* (Patch).

N. attenuatus O. & S. Karner, Oct, *Cy* (Patch), on *Smilax herbacea.*

PROCIPHILUS Koch

P. imbricator (Fitch). BEECH BLIGHT. Probably widely distributed and somewhat common to abundant. Newport, Oct; Ithaca (Morr); Richfield Sps., Sep (Felt); Barneveld, Aug; Indian Ladder, Albany Co; Scarsdale, Aug.

P. corrugatans Sirrine. Ithaca, May (Patch), on Amelanchier.

P. tessellata (Fitch) (*Pemphigus tessellata* and *P. acerifolii* Rly.). ALDER BLIGHT. Somewhat generally distributed, but especially abundant in the Adirondacks (Felt); Essex, Monroe, Tompkins, Orange, and Suffolk Counties.

Tribe FORDINI

FORDA Heyden

F. occidentalis Hart. **LI:** Maspeth, Je, on Polygonum roots (Ols).

GEOICA Hart

G. radicicola Essig (*Triphidaphis*). Warsaw, Aug, on bean roots, *Cy* (Patch).

SUBFAMILY HORMAPHIINAE

HORMAPHIS Osten Sacken

H. hamamelidis Fitch. A common and probably widely distributed species, producing a characteristic conical gall on the leaves of witch-hazel (Felt). Newport; Oneonta; Nassau; **LI:** Wading R., May (Ols).

H. papyraceae Oest. Cranberry L., galls on willow birch (Osb). This may be a synonym (Baker & Mason).

HAMAMELISTES Shimer

H. spinosus Shim. Probably widely distributed, though not usually abundant excepting possibly on birch, its alternate food plant. Albany, Jl (Gill); Hudson (Felt); Canandaigua, Aug; Tarrytown, Je. Produces a peculiar spiny bud-gall on witch-hazel.

CERATAPHIS Lichtenstein

C. lantaniae (Bdv). Ithaca, Dec–Mar, in greenhouse on *Sobralia macrantha*, *Griswold* (Patch).

FAMILY PHYLLOXERIDAE

SUBFAMILY ADELGINAE

ADELGES Linnaeus

A. abietis L. SPRUCE-GALL APHID. Moderately abundant to injurious from the Adirondacks to Westchester Co and presumably **LI**, probably occurring in most places where Norway spruce is growing.

A. cooleyi Gill. Watertown, Jl (NYS); White Plains, Aug, on Colorado blue spruce; **LI**: Westbury, Jl (Felt).

A. floccus Patch. Star L., St. Lawrence Co, Aug; St. Huberts, Essex Co, Dec (Patch).

A. piceae Ratz. Rochester, May, on Nordmann's fir, probably a recent introduction (Felt).

A. pinicorticis Fitch. PINE-BARK APHID. A moderately common species recorded definitely only from Albany, Chenango, Fulton, Saratoga, Dutchess, Ulster, Putnam, Rockland, Westchester, and Suffolk Counties, but widely distributed and occasionally destructive even to large pine trees.

A. pinifoliae Fitch (*abieticolens* Thos.). PINE-LEAF APHID. Forms a cone-like gall with the needles modified to thin scales on black spruce, the adults maturing in mid-June and the migrants ovipositing on white pine (Patch). St. Huberts, Jl (Felt); Utica, Jl (NYS); Woodstock (Felt); Berlin, Jan.

A. strobilobius Kalt. (*laricifoliae* Fitch). This species has been referred to the European genus Gnaphalodes. The woolly aphid is sometimes very abundant on larch. Reported only from Ontario, Tompkins, Oneida, Dutchess, and Rockland Counties, but presumably somewhat generally distributed and occasionally rather injurious.

SUBFAMILY PHYLLOXERINAE

PHYLLOXERA Boyer

P. caryaecaulis Fitch. HICKORY-GALL APHID. Widely distributed throughout the State, probably occurring wherever hickory grows and often injurious to it.

P. caryae-fallax Walsh. Rochester, Je (Gill).

P. caryaefoliae Fitch. Salem (Fitch); Ithaca (Morr), on *Hicoria glabra*.

P. caryaeglobuli Walsh. **LI**: Cold Sp. Harb., Je, *Lutz* (NYS).

P. caryae-venae Fitch. Rochester, Je (Gill–NYS).

P. depressa Shim. Howe Cave, Schoharie Co, Je (NYS).

P. foveola Perg. Canandaigua, Je (NYS).

P. intermedia Perg. Rochester, Geneva, Je (Gill).

P. vitifoliae Fitch (*vastatrix* Rly.). GRAPE PHYLLOXERA. Moderately common and widely distributed. Recorded from Chautauqua, Onondaga, Ontario, Chenango, Rensselaer, and Ulster Counties. Probably occurs in most sections of the State where grapes grow.

FAMILY **ALEYRODIDAE** [24]

ALEUROCHITON Tullgren

A. forbesii Ashm. Ithaca, Nov (CU), on silver maple.

ALEYRODES Latreille

A. asarumis Shim. (*acteae* Britton). Taughannock Falls, Jl (CU), on *Asarum canadense*; Fort Plain (Felt); probably widely distributed.

TRIALEURODES Cockerell

T. coryli Britton. Nassau, Jl (Felt), on hazel.

T. morrilli Britton. Tarrytown, Aug (Britton), on *Impatiens fulva.*

T. packardi Morrill. Sparkill (Sling); **SI:** Richmond (Sling).

T. vaporariorum Westw. GREENHOUSE WHITEFLY. Generally distributed in greenhouses throughout the State, infesting a variety of plants.

TETRALEURODES Cockerell

T. mori Quaint. Mt. Kisco, Jl (Felt), abundant on *Kalmia latifolia*; New Rochelle, Sep, on Norway maple (Felt).

FAMILY **COCCIDAE** [25]

Compiled by E. P. FELT and HAROLD MORRISON

SUBFAMILY **MONOPHLEBINAE**

ICERYA Signoret

I. purchasi Mask. COTTONY CUSHION SCALE, or FLUTED SCALE. Rochester, Ithaca (USBE); Albany (NYS); New Rochelle (USBE); **LI:** Lynbrook, *LCGriffith* (NYS). On Acacia and grapefruit. A greenhouse species in this latitude, and well known in the citrus-growing sections of the country. It has been recorded from a large variety of plants and has an extended distribution in the warmer sections of the world.

SUBFAMILY **MARGARODINAE**

MATSUCOCCUS Cockerell

M. matsumurae (Kuw.). This species has caused considerable damage to the pines on the De Forest Estate on **LI** (Herbert, Proc. Ent. Soc. Wash., vol. 23, p. 19).

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[24] The list in this family was originally prepared by Dr. E. P. Felt, and the manuscript has been looked over by Dr. W. E. Britton.

[25] To the list of the Coccidae compiled by Dr. E. P. Felt several years ago, has been added, through Harold Morrison, a summary of the numerous New York species, host, and distribution records contained in the coccid note files of the Bureau of Entomology of the United States Department of Agriculture. About fifty new species and many additional locality records have been obtained from this source. The majority of these are based on determinations by Mr. Morrison. No special attempt has been made to separate the statements made by each, nor is either of these authorities to be held responsible for errors in the list. All dates are omitted, since many specimens are collected long after their death.

SUBFAMILY ORTHEZIINAE

ORTHEZIA Bosc d'Antic

O. insignis Dougl. Ithaca (Comst); NYC (Pettit&King). On Coleus. This cosmopolitan species occurs in nearly all greenhouses in the State on a very large variety of plants, mostly herbaceous.

O. solidaginis Sanders. Ithaca. On Solidago, red clover, mint, and *Prunella vulgaris.*

SUBFAMILY DACTYLOPIINAE

ASTEROLECANIUM Targioni-Tozzetti

A. bambusae Bdv. NYC (USBE). On Bambusa in greenhouse.

A. pustulans (Ckll.). Chatham (NYS). A subtropical species occurring on a variety of plants.

A. variolosum (Ratz.). Rochester, Geneva, Cortland, Newburgh, Yonkers (NYS); Tarrytown (USBE); NYC (NYS); **LI:** Flushing (NYS); Westbury, Brooklyn (USBE). This species is limited to oak, and is an introduction from Europe.

CEROCOCCUS Comstock

C. parrotti (Hanter). **LI:** Brooklyn (USBE). On horse-chestnut.

KERMES Boitard

K. galliformis Rly. Ithaca (CU); Karner, Middletown (NYS); **LI:** Brooklyn (NYS). On black oak. This name has been indifferently applied to species of Kermes, and the records here given may therefore include more than one species.

K. kingii Ckll. Middletown (NYS). On red oak.

K. pettiti Ehrh. Ithaca, *Pettit* (Ehrh); Middletown, on oak, *Thro* (EEBogue).

K. pubescens Bogue. Scarsdale (USBE). On oak.

K. trinotatus Bogue. Albany (NYS). Apparently widely distributed in the United States. On *Quercus nigra.*

GOSSYPARIA Signoret

G. spuria (Mod.) (*ulmi* Geoff.). EUROPEAN ELM SCALE. Many localities show this species to be widely distributed throughout the State from **LI** and NYC along the Hudson R., northward to Round L., and westward to Newfane. Its occurrence at Binghamton and Ogdensburg also indicates a wide distribution, which may be restricted only by the lack of its food plant.

ERIOCOCCUS Targioni-Tozzetti

E. azaleae Comst. Canton (NYS); Geneva (Comst–CU); Ithaca (Comst–CU); **LI:** Brooklyn (NYS). On wild azalea, *Azalea mendula,* Rhododendron, huckleberry, *Crataegus coccinea.*

E. borealis var. Ckll. & Robn. "NY" (Ckll-USBE). On Gaylussacia.

E. coccineus Ckll. NYC (USBE). On various greenhouse Cactaceae.

GYMNOCOCCUS Douglas

G. agavium (Dougl.). NYC (USBE). On *Agave* spp.

DACTYLOPIUS Costa

D. indicus (Green). NYC (USBE). On *Opuntia* sp. in greenhouse.

PHENACOCCUS Cockerell

P. acericola (King). FALSE MAPLE SCALE. Numerous records covering a series of years indicate the common occurrence of this insect in the Hudson Val. northward to Troy. Sometimes very abundant on hard maple, and erroneously referred in earlier years in this country to *Pseudococcus aceris* Geoff. Also reported from Johnstown, Oneonta, and Batavia, indicating a wide distribution and suggesting that the area of greatest injury is in the southern part of the Hudson Val. The U. S. Bur. Ent. has many records throughout the State. On maple, hornbeam, lime, and horse-chestnut.

P. dearnessi King. Albany (USBE). On Crataegus.

TRIONYMUS Berg

T. americanus (Ckll.). Barneveld (USBE).

PSEUDOCOCCUS Westwood

P. adonidum (L.) (frequently referred to as *longispinus*). A common mealy-bug recorded from Ithaca, Albany, and one **LI** locality and Brooklyn, in greenhouse (USBE). Like *citri*, it is probably widely distributed throughout the State on a considerable variety of subtropical and tropical plants.

P. citri (Risso). CITRUS MEALY-BUG. This common mealy-bug of the greenhouse is represented from Ithaca, Albany, **LI** (Maspeth, Brooklyn, Flushing), on many plants (USBE). This must be only a very small fraction of localities in the State where this insect occurs, since it is presumably world-wide in distribution and occurs on a very large variety of tropical and semitropical plants.

P. comstocki (Kuw.). Palisades, NYC, **SI**, and **LI** (Brooklyn, Mineola, Bayside) (all USBE). On a variety of plants.

P. gahani Green. NYC (USBE). On ampelopsis.

P. ledi Ckll. Oneida, *HDHouse* (NYS); Sand L., Rensselaer Co (Ckll–CU). On *Ledum groenlandicum*.

P. maritimus (Ehrh.). NYC (USBE). On a variety of plants.

P. nipae (Mask.). COCONUT MEALY-BUG. New Rochelle, NYC (USBE); **LI**: Locust Val. (USBE). On a variety of plants in the greenhouse.

P. trifolii Fbs. CLOVER-ROOT MEALY-BUG. Ithaca (CU). On roots of red clover.

RIPERSIELLA Tinsley

R. maritima (Ckll.). **LI**: Sea Cliff (USBE). On roots of Spartina.

SUBFAMILY **COCCINAE**

PULVINARIA Targioni-Tozzetti

P. acericola Walsh & Rly. Ithaca, *Pettit&Lochhead* (CU); Albany (USBE); Tarrytown (NYS); **LI:** Maspeth (USBE). Occurs on the leaves of soft maple and on Cornus; is relatively scarce, and probably widely distributed throughout the State.

P. amygdali Ckll. COTTONY PEACH SCALE. Williamson, Morton, Lockport, 1925, several infested peach orchards in each. Here first definitely recorded from the State (Morr–CU).

P. psidii (Mask.). GREEN SHIELD SCALE. NYC (USBE). On several greenhouse plants.

P. vitis (L.). COTTONY MAPLE SCALE. Recorded by numerous observers from many localities in the State. Particularly abundant on **LI** and in the Hudson Val. localities northward to Hudson Falls. Reported in addition from: Adams; Rome; Phoenix; Rochester; Batavia; Buffalo; Salamanca; Ithaca; Auburn; Schenectady. Thrives on soft maple, is frequently reported on grape and under the name *P. innumerabilis* Rathv., and has been recorded from a large number of other food plants.

PROTOPULVINARIA Cockerell

P. pyriformis (Ckll.). PYRIFORM SCALE. NYC (USBE). On Antidesma in greenhouse.

PSEUDOPHILIPPIA Cockerell

P. quaintancii Ckll. Port Jervis (NYS). On pitch pine.

ERIOPELTIS Signoret

E. festucae Fonsc. Gravesville (USBE). On grass.

E. lichtensteinii Sign. Stark (NYS). On grass.

CEROPLASTES Gray

C. grandis Hemp. Lancaster, *EPV* (CU). On Azalea in greenhouses. A Brazilian species previously recorded on Zanthoxylum, Baccharis, Ilex, and Psidium.

EUCALYMNATUS Cockerell

E. tessellatus (Sign.). NYC (USBE). On many greenhouse plants.

COCCUS Linnaeus

C. acuminatus (Sign.). NYC (USBE). On Jasminum in greenhouse.

C. elongatus (Sign.). NYC (USBE). On many greenhouse plants.

C. hesperidum L. SOFT SCALE. A common soft scale on greenhouse and house plants. Ogdensburg, Oswego (NYS); Sinclairville (USBE); Rogers Rock, L. George (USBE); Albany, Schenectady (NYS); Richfield Sps. (USBE); Chatham Center (NYS); Lebanon Sps. (USBE); Kingston (NYS); Milton, Monticello (USBE); Warwick (NYS); New Rochelle (USBE); Irvington

(NYS); White Plains (USBE); Kenilworth (USBE); Nyack (USBE); NYC (NYS); **SI:** Rosebank (USBE); **LI:** Roslyn (USBE). This species is cosmopolitan and infests a considerable variety of plants.

C. pseudohesperidum (Ckll.). Ithaca, Garrison (USBE). On orchid.

C. viridis (Green). NYC (USBE). On citrus in greenhouse.

NEOLECANIUM Parrott

N. cornuparvum Thro. MAGNOLIA SCALE. E. Aurora, Aurora, Jamestown (USBE); Trumansburg (Thro–CU); Elmira, Mt. Vernon (USBE).

TOUMEYELLA Cockerell

T. corrugatum neglectum Pett. & McDaniel. W. Danby (USBE). On pine.

T. liriodendri (Gmel.). TULIP-TREE LECANIUM. Recorded from many localities in the State, principally on **LI** and in the Hudson Val. Probably distributed coincident with its food plant. On tulip tree and magnolia.

T. pini (King). Rochester (NYS); Ithaca (CU); Karner (NYS). On *Pinus divaricata* and *P. rigida*.

LECANIUM Burmeister

L. caryae Fitch. Otto (CU); Albany (NYS); NYC (Fitch). On black cherry and hickory.

L. corni Bouché, and its synonyms, varieties, etc. EUROPEAN FRUIT LECANIUM. Throughout the State on many hosts (USBE).

L. fletcheri Ckll.[26] Valcour, Canandaigua (NYS); has been taken also by Pettit, presumably at Ithaca; Yonkers (USBE); **LI** (USBE). On cedar and arbor vitae.

L. nigrofasciatum Perg. THE TERRAPIN SCALE. This is a common species occurring on a variety of trees. It has been recorded from widely separated localities in the State, such as Port Jervis, various places in the Hudson Val., Elmira, Unadilla Forks, and Stanley. Particularly abundant on plum, apple, linden, birch, olive, and Vaccinium.

L. persicae (Fab.).[27] NYC; **LI:** Brooklyn (USBE). On kudzu vine and Berberis.

L. quercifex Fitch.[28] New Russia, on chestnut (NYS); Otto, on elm (CU); Ithaca, on Rubus and elm (CU); Albany, on black currant (NYS); **LI:** Wading R., on oak (Ols).

SAISSETIA Deplanches

S. hemisphaerica (Targ.). HEMISPHERICAL SCALE. Gouverneur, Rome, Rochester, Buffalo, Jamestown, NYC, **SI** (Prince Bay), **LI** (Locust Val., Flushing, Bayside) (all USBE); **LI:** Maspeth, on fern in greenhouse (Ols).

S. nigra (Nietn.). NYC (USBE). On a variety of greenhouse plants.

S. oleae (Bern.). BLACK SCALE. Rochester, NYC, **LI** (Brooklyn) (USBE); Maspeth, on lemon (NYS). A subtropical or tropical species occurring on a variety of greenhouse plants and on citrus fruits. It is cosmopolitan in distribution and is recorded from a very large variety of food plants.

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[26] Pettit and McDaniel have recently (Michigan Tech. Bul. 48, Mar., 1920, p. 12–14) regarded this as *corni* Bouché.

[27] All the early records of the occurrence of this species in New York State apparently relate to *L. corni* Bouché.—Morr.

[28] There is a question as to the correctness of records on hosts other than oak (Morr).

PHYSOKERMES Targioni-Tozzetti

P. piceae (Schr.). SPRUCE BUD-SCALE. Port Henry (NYS); Ithaca (common), Yonkers (USBE); Blauvelt (NYS); Mt. Vernon, on spruce (NYS). A European species which has been recorded, in addition, on pine.

SUBFAMILY DIASPINAE

CHIONASPIS Signoret

C. americana Jn. WHITE ELM SCALE. Newark (NYS); Geneva (USBE); Schenectady (NYS); Albany (NYS); Cohoes (USBE); Tarrytown (NYS); NYC (USBE); **LI:** Brooklyn, Westbury (NYS); Maspeth (Ols). Appears to be confined to elm and is probably widely distributed, though the infestation is usually inconspicuous and generally overlooked.

C. corni Cool. Rochester (USBE); Geneva (NYS); Youngstown, Ithaca, Albany (USBE); **LI:** Westbury (NYS). Apparently occurs only on Cornus.

C. euonymi Comst. EVONYMUS SCALE. Hudson (NYS); Lexington, Fishkill (Felt); Irvington, Mt. Kisco, Tarrytown, *Felt*, Blauvelt, Nyack (NYS); NYC, Mamaroneck (USBE); **SI:** Tottenville (Ds, Ols); **LI:** Roslyn, Maspeth (Ols); Great Neck (NYS); Flatbush, Brooklyn, Babylon, Westbury, Baldwin, Stony Br. (USBE). On Evonymus, Celastrus, privet, and lilac.

C. furfura (Fitch). SCURFY SCALE. Is represented by specimens in the NYS and CU collections, and has been received from many contributors in different localities from the following counties: Madison, Wayne, Monroe, Niagara, Erie, Chautauqua, Ontario, Tompkins, Cayuga, Albany, Rensselaer, Greene, Columbia, Ulster, Dutchess, Orange, Westchester, New York, Richmond, Nassau, Suffolk (Felt); and from many points in the State (USBE). These records indicate a general distribution in the southern and more temperate sections of the State. The insect does not appear to have attracted notice in the Adirondacks. It is recorded from a large variety of food plants, has a wide distribution in Canada and the United States, and has become established in England.

C. lintneri Comst. Rochester, on Cornus (NYS); Buffalo (Felt); Ithaca (USBE); Albany, on Alnus (Comst–CU). Occurs, in addition to the above food plants, on willow, Viburnum, benzoin, Amelanchier, Betula, etc.

C. longiloba Cool. Ithaca (EEBogue). Recorded from Texas on cottonwood.

C. pinifoliae (Fitch). PINE-LEAF SCALE. Apparently widely distributed in the State. Has been reported by a number of observers from the following counties: Clinton, Monroe, Ontario, Tompkins, Schenectady, Saratoga, Albany, Columbia, Dutchess, Orange, Westchester, Kings, Queens, Nassau, Suffolk (Felt); and from many points in the State (USBE). It occurs in particular on the Scotch, Austrian, and white pines, especially in parks, and also on spruce.

C. pinifoliae heterophyllae Cool. **LI:** Glen Cove, Southold (USBE). On *Pinus densiflora* and *P. rigida*.

C. salicis-nigrae (Walsh). "NY" (USBE). On poplar.

C. spartinae Comst. **LI:** Orient Pt., *Lath* (NYS). On *Spartina alterniflora*, *S. glabra*, and *S. stricta*.

C. sylvatica Sanders. NYC (USBE). On Benzoin (?).

HOWARDIA Berlese and Leonardi

H. biclavis (Comst.). Ithaca, NYC (USBE). On a number of greenhouse plants.

DIASPIS Costa

D. boisduvalii Sign. Gouverneur, on orchid (NYS); Rochester (USBE); Albany (NYS); Garrison (USBE); Millbrook, on cycad (Morr); Ithaca (USBE); NYC (USBE); **LI:** Brooklyn (USBE). Probably somewhat widely distributed within the State on greenhouse plants, such as palms, cattleya, etc.

D. bromeliae (Kern.). PINEAPPLE SCALE. NYC (USBE). On Bromelia.

D. carueli Targ. Rochester, on *Juniperus virginiana* and *Pinus aristata* (John Dunbar); Ithaca (CU); Ossining, on juniper (NYS); NYC (NYS); **LI:** Garden City, on arbor vitae (CU); Lynbrook, on *Juniperus chinensis* (Cy); several localities (USBE). A moderately common and widely distributed species.

D. echinocacti (Bouché) var. **cacti** Comst. Rochester (USBE); Ithaca, on cactus (Comst–CU); NYC, on cactus (Joutel–NYS).

D. zamiae Morg. Altamont, on *Cycas revoluta* (NYS); Albany, on Cycas (USBE); Ithaca; NYC, on *Encephalartos villosus* (USBE).

AULACASPIS Cockerell

A. pentagona (Targ.). WEST INDIAN PEACH SCALE. Chatham, on flowering cherry (NYS); Kingston, on imported Japanese flowering cherry (NYS); New Rochelle, on *Prunus pseudo-cerasus* (NYS); NYC, on cherry (NYS); **LI:** Brooklyn, on peach and cherry (USBE). A southern form, and probably unable to breed in the open except possibly in the southern part of the State.

A. rosae (Bouché). ROSE SCALE. Pompey, on rose (NYS); Brighton, on blackberry (NYS); Stanley, on blackberry and rose (NYS); Ithaca; Cobleskill, on rose (NYS); Ballston Spa, on rose (NYS); Albany, on raspberry (NYS); Castleton, on rose (NYS); Troy, on rose (NYS); Hudson, on blackberry (NYS); Kingston, on rose (NYS); Fishkill, on rose (NYS); Cornwall, on blackberry and raspberry (NYS); NYC, on blackberry (NYS); **SI:** New Brighton, on blackberry (NYS); **LI:** Brooklyn, on rose (NYS); Maspeth (Ols); many records from State (USBE).

HEMICHIONASPIS Cockerell

H. aspidistrae (Sign.). FERN SCALE. Geneva (USBE); Jamestown (USBE); Ithaca, on grass in a greenhouse (CU); Albany, on grass in a greenhouse (NYS); New Rochelle and Hyde Park (USBE); **LI:** Brooklyn, Locust Val., Jamaica (USBE). On fern and other greenhouse plants.

PINNASPIS Cockerell

P. buxi (Bouché). Irvington-on-Hudson, NYC (USBE). On Spathyllum, Cordyline, and Phoenicophorium, in greenhouse.

LEUCASPIS Targioni-Tozzetti

L. cockerelli (de Charmoy). NYC (USBE). On Sabal, Trachycarpus.

FIORINIA Targioni-Tozzetti

F. fioriniae (Targ.). New Rochelle (USBE). On *Kentia belmoreana.*

F. japonica Kuw. Albany, on Japanese hemlock (USBE); **LI:** Queens, on Tsuga and Japanese hemlock (USBE).

F. theae Green. "NY" (USBE). On *Camellia japonica.*

EPIDIASPIS Cockerell

E. piricola (DelG.). Albany, Garrison, Hunt's Pt., **LI** (USBE). On pear.

ASPIDIOTUS Bouché

A. abietis (Schr.). HEMLOCK SCALE. Ithaca, on *Pinus rigida* and *Abies canadensis* (Comst–CU); Karner, on pine (NYS); NYC, on hemlock (NYS).

A. aesculi Jn. Buffalo, on horse-chestnut (USBE).

A. ancylus Putn. PUTNAM'S SCALE. Recorded from many localities in the following counties: Oswego, Wayne, Monroe, Orleans, Genesee, Erie, Chautauqua, Ontario, Seneca, Tompkins, Cayuga, Albany, Greene, Columbia, Ulster, Rockland, Queens. Presumably widely and generally distributed throughout the State, except possibly in the Adirondack section. Has been recorded in NY from the following host plants: apple, beech, purple-leaved chestnut, Cornus, Florida currant, elm, hemlock, Ilex, linden, maple, mountain ash, nectarine, olive, Osage orange, pear, white birch, willow.

A. camelliae Sign. (*rapax* Comst.). Geneva, on bay tree (CU); NYC, on bay and other plants (USBE); **LI:** Roslyn, Brooklyn (USBE).

A. comstocki Jn. "NY" (Fern. Cat.). On maple.

A. cyanophylli Sign. NYC (USBE). On palm.

A. forbesi Jn. CHERRY SCALE. Syracuse (USBE); E. Aurora, on apple (NYS); Geneva, on pear (NYS); Manchester, on apple (NYS); Crescent Station, on apple (NYS); Albany (NYS); Highland, on peach (NYS); Cornwall, on Japanese plum (NYS); Blauvelt, NYC (USBE). Recorded from a considerable variety of plants, and presumably widely and somewhat generally distributed throughout the State.

A. hederae (Vall.). OLEANDER SCALE. Gloversville (USBE); Lockport (NYS); Buffalo, Alden, Geneva (USBE); Ithaca, on English ivy (NYS); Watervliet, on ivy (NYS); Albany, on Cyperus (NYS); Idlewild (USBE); Mt. Kisco, on Cattleya; Kenilworth (USBE); NYC (USBE); **LI:** Edgemore (USBE); Maspeth (Ols). Subtropical; presumably generally distributed throughout the State in greenhouses, and recorded as occurring on a great variety of plants.

A. juglans-regiae Comst. WALNUT SCALE. Brighton, on European mountain ash (NYS); Lockport, Fredonia, on willow (USBE); Ithaca, on willow (USBE); NYC, on Tilia; **LI:** Brooklyn (USBE). Recorded also from the State by others, but without definite record as to locality or food plants.

A. lataniae Sign. Lancaster, on palm, *EPV* (CU); Albany (NYS); NYC, on several plants (USBE).

A. osborni Newell & Ckll. Mt. Vernon, on white oak (NYS). A very inconspicuous species, evidently with a greater range than is indicated by the foregoing record.

A. ostreaeformis Curt. EUROPEAN FRUIT SCALE. Recorded from many localities in the following counties: Oswego, Monroe, Orleans, Niagara, Erie, Chautauqua, Ontario, Columbia, Rockland (Felt); records from many places and hosts in the State (USBE). Probably generally distributed throughout the State. Has been recorded in NY from the following food plants: apple, cherry, currant, elm, pear, plum, poplar, willow.

A. perniciosus Comst. THE SAN JOSÉ SCALE. An introduced species which has become established in nearly every county in the State, with the possible exception of Clinton Co, where it has not yet been found. Lives on a great

variety of trees and shrubs. Has been recorded in NY as occurring on the following: apple, birch, cherry, Crataegus, currant, elm, hornbeam, Japanese quince, pear, peach, plum, lilac, Osage orange, rose, spiraea, willow. Will probably become generally distributed in most regions except the Adirondacks.

A. townsendi Ckll. **LI:** Westbury (USBE). On tulip tree.

A. ulmi Jn. Buffalo, on catalpa (NYS); Albany (NYS); NYC (USBE).

A. uvae Comst. GRAPE SCALE. Ithaca (Ckll); **LI:** Greenbush (Felt–NYS). On grape.

CRYTOPHYLLASPIS Cockerell

C. liquidambaris Kot. NYC (USBE). On sweet gum (*Liquidambar styraciflua*).

PSEUDAONIDIA Cockerell

P. paeoniae (Ckll.). NYC (USBE). On Camellia.

CHRYSOMPHALUS Ashmead

C. aonidum (L.). Gloversville, Lyndonville, Menands (NYS); Ithaca; New Rochelle (USBE); Yonkers (NYS); NYC (USBE); **LI:** Locust Val. (USBE). Recorded from several of the above localities on rubber plant; well known as a greenhouse pest on a considerable variety of plants.

C. aurantii (Mask.). CALIFORNIA RED SCALE. "NY" (Fern. Cat.).

C. dictyospermi (Morg.). MORGAN'S SCALE. Rochester (USBE); Albany, on sago pine and palms (NYS); Millbrook, on cycad and palms (Morr); New Rochelle and NYC (USBE). A greenhouse species occurring on a variety of hothouse plants.

C. odontoglossi (Ckll.). NYC (USBE). On *Albizzia lebbek*.

C. perseae (Comst.). NYC (USBE). On Anthurium and Spathyllum in greenhouse.

C. rossi (Mask.). NYC (USBE). On *Macrozamia moorei* in greenhouse.

C. smilacis (Comst). NYC, on smilax, *Southwick* (NYS); **LI:** Maspeth, on smilax (Ols–NYS).

C. tenebricosus (Comst.). Buffalo (USBE). On soft maple.

PSEUDISCHNASPIS Hempel

P. bowreyi (Ckll.). NYC (USBE). On Agave and Livistona in greenhouse.

AONIDIA Targioni-Tozzetti

A. lauri (Bouché). Albany (USBE); NYC, on bay tree (NYS); **LI:** Roslyn (USBE). Probably brought in on its European host.

GYMNASPIS Newstead

G. achmeae Newst. NYC (USBE). On Achmea, Ananas, Hohenbergia, Bromelia, and Billbergia, in greenhouse.

LEPIDOSAPHES Shimer

L. beckii (Newm.). PURPLE SCALE. Rochester, Geneva (USBE); Albany (NYS); NYC, Inwood (USBE); **LI:** Maspeth, on orange and lemon (Ols, Felt). On Citrus and Elaeagnus in the greenhouse or market.

L. gloverii (Pck.). NYC, on orange and lemon (NYS). Undoubtedly brought in on its food plant.

L. lasianthi (Green). NYC (Sasscer–USBE). On *Camellia japonica.*

L. newsteadi (Sulc.). Rye (Sasscer–USBE). On Sciadopitys.

L. philococcus (Ckll.). NYC (USBE). On Opuntia.

L. ulmi (L.). OYSTER-SHELL SCALE. Recorded from the following counties: St. Lawrence, Herkimer, Lewis, Oswego, Fulton, Monroe, Orleans, Genesee, Erie, Ontario, Cayuga, Otsego, Schoharie, Saratoga, Washington, Albany, Rensselaer, Greene, Dutchess, Putnam, Sullivan, Orange, Westchester, Richmond, Queens, Nassau, Suffolk (Felt); records from many localities and hosts in the State (USBE). Is presumably generally distributed throughout the State. Occurs in NY on the following food plants: apple, ash, balm of Gilead, white birch, butternut, Cornus, Crataegus, grape, horse-chestnut, lilac, maple, Pennsylvania maple, silver magnolia, pear, privet, syringa, willow. Has been recorded in literature from a considerable variety of other plants.

ISCHNASPIS Douglass

I. longirostris (Sign). THREAD SCALE. Albion, on Chinese fan palm, *JBAchilles* (NYS); Fishkill, Pawling, Mamaroneck, NYC (USBE). **SI:** New Brighton (USBE). On various plants in greenhouse.

PARLATORIA Targioni-Tozzetti

P. pergandii Comst. CHAFF SCALE. Rochester; Geneva; NYC.

P. pergandii crotonis Ckll. Rochester (USBE). On *Codiaeum variegatum.*

P. proteus Curt. Geneva (CU); Ossining (NYS); NYC, on tangerine (NYS); **LI:** Maspeth, on orange (Ols–NYS).

P. theae Ckll. Rochester, on Japanese maple (NYS); Schenectady, on Japanese maple (NYS).

ORDER DERMAPTERA[29]

Compiled by WILLIAM T. DAVIS

FAMILY FORFICULIDAE

SUBFAMILY LABIDURINAE

ANISOLABIS Fieber

A. maritima Géné. Larchmont, Nov, *TDO'Connor* (Hebard); Palisades of the Hudson, along the shore, May (*Ds*); along the East River under rubbish, very common (Joutel); **SI:** collected and still to be found at numerous localities along the easterly shore of the island from St. George to Totten-

[29] *Adventive species.*— The following adventive species have been reported in New York State: *Labidura riparia* (Pallas), **SI**, male, in head of imported lettuce, Jan, 1916; *Prolabia pulchella* (Serv.), original type from Niagara; *Doru lineare* (Esch.), **SI**, male, in spinach, Feb 4, 1920. *Euborellia annulipes* (Lucas) has been found in Mass.

ville; in 1880 it was a common species under stones and drift on the shore at St. George Point where the present ferry slips are; **LI**: Rockaway Beach, Sep; North Beach, Je, *Ols*; Center I., Oyster Bay, May; Southold, Sep; Greenport, Aug; Orient, Jl, eggs and young (*Ds*), Sep, *Lath*; Gardiners I., May, nymph, *Cy*.

SUBFAMILY **LABIINAE**

LABIA Leach

L. minor L. Ithaca, May–Aug, under a light (CU); Tuxedo, May, *TDO'Connor* (Hebard); Mosholu, Van Cort. Pk., *Sf*; Bronx, Aug, in numbers at light, *Wat*; Riverdale, Sep, *Woodr* (Ds); Manhattan I., Central Pk., Je, Sep, *Joutel*; **SI**, a male taken in May, a female in Aug, and a second male in Je; it sometimes comes to light and is also taken on plants; **LI**, represented in the collection of the Brooklyn Institute of Arts and Sciences.

SUBFAMILY **FORFICULINAE**

DORU Burr

D. aculeatum Scud. "NY (Coll. Uhler)" is cited by Scudder (Proc. Boston Soc. Nat. Hist., vol. 18 (1875–76), p. 263) and by Rehn and Hebard (Journ. N. Y. Ent. Soc., Je, 1914); **SI**, one female found on the edge of the meadows near Dongan Hills, Sep; **LI**: Hewlett, Nov, in rotten birch log, *Schott*.

FORFICULA Linnaeus

F. auricularia L. EUROPEAN EARWIG. E. Aurora, Aug, numerous specimens of both sexes captured out-of-doors by JBAchilles. This introduced earwig has become well established at Newport, RI, where Morse states the occupied area is ten square miles.

ORDER **COLEOPTERA**

General Editor, CHARLES W. LENG

Staten Island Institute of Arts and Sciences

The list of Coleoptera is based on published lists and numerous manuscript communications. It is fairly complete in some families, especially for the southeastern part of the State where records have been obtained from many collectors in New York City and vicinity. In the Rhynchophora and in the Staphylinidae and other families of small beetles, however, many names may be added by further study and collecting. On the other hand, a few of the names included may eventually prove to be synonyms. The distribution of some species within the State is imperfectly shown because records for them are lacking from the central and western counties. Using as a guide those species for which the records are comparatively complete, it is evident that there are on Staten Island, on Long Island, and in the lower Hudson Valley, a considerable number of southern species; and in the higher parts of the Catskill and Adirondack Mountains, a number of northern species. Otherwise there is no clear evidence in the records assembled of any strong faunal boundary within

the State. The sequence of families, genera, and species is that of Leng's Catalog, except in a few cases in which genera and species have been changed about for reasons explained in the text. The Leng catalog numbers precede each species, for convenience in referring to that work.

FAMILY **CICINDELIDAE**

TETRACHA Hope

38 **T. virginica** L. **LI:** Central Pk., Sep (Ds).

CICINDELA Linnaeus

39b **C. formosa** Say var. **generosa** Dej. Keene Val., Je (Not); Elizabethtown, Aug (Harr); Horicon, Jl 17, 1925 (Frost); Luzerne, Jl (HarrED); Rochester (M&W); Ballston, Je (Harr); Schenectady (Dt); Albany (Lint); Karner, Je (NYS); Hoosick, Je (Harr); Yonkers, Sep (Harr); White Plains (Sq); Bloody Pond, Sep (Harr); Guymard, Je (HarrED); Mosholu, Jl (Bno); Van Cort. Pk., Oct (Bno); **SI:** Watchogue, Mar–Oct (L&D); **LI:** Springfield Gardens, Sep (HarrED); Cold Sp. Harb., Sep (Ds); Aqueduct, Sep (Ds); Amagansett, Sep (Ds); Yaphank, Je (Ds); Wading R., May–Aug (Ds); Hauppauge, Je (Ds); Quogue, Sep (HarrED).

42 **C. purpurea** Oliv. Keene Val., Jl, Sep (Not); Jay, Aug (Harr); Lewis Co, Jl (NYS–Hill); New Russia, Aug (CU); Potsdam, Ap (HarrED); Newport, Ap (NYS); Axton, Je (M&H); Onondaga Co, Mar 18 (H); Rochester (M&W); Avon, Feb, May (Cls); Olcott (Dt); Buffalo (Z&R,HarrED); Pike, Je (NYS); Castile, Je, *Brad* (Flet); Rock City, Je (Ds); Potters, Je (Ds); Ithaca, May–Je, Sep (Morr); Stamford, Jl (HarrED); Saratoga Sps., Je (HarrED); Haines Falls, Jl (HarrED); Debruce, Je, Sep (Ds,HarrED); East Branch, Oct (Ang); West Pt. (Robn); White Plains (Sq); NYC (Lg, Bt); **SI,** Mar–Sep, not common in recent years (L&D); **LI:** Bethpage, May (HarrED); Islip, Sep (HarrED); E. Hampton, Sep (HarrED); Amagansett, Sep (Ds); Calverton, Sep (Ds); Yaphank, May–Oct (Ds); Wyandanch, May (Ds); Southold, Sep (Ds); Wading R., May–Je (Ds); Gardiners I., Je (Ds).

44 **C. splendida** Hentz. "NY" (Lec), also from Schaupp Coll. (HarrED). It is possible that these records refer to *limbalis* (Lg).

45 **C. limbalis** Klug. Buffalo (Z&R); Westfield, May (Not); Rock City, Je (Ds); West Pt., *Robn* (Ds); Peekskill, Jl (Harr); Bear Swamp, Ramapo, Ap–Sep (Ds); Southfields, Oct (Ds).

48 **C. ancocisconensis** Harr. Buffalo (HarrED); Ebenezer, Je (Rein); Cazenovia Cr., May–Aug (Rein); Debruce, Je, Sep (HarrED, Ds).

49 **C. duodecimguttata** Dej. Raquette L., Jl (Harr); Wilmington, Jl–Aug (Ds, Dt); Elizabethtown, Aug (HarrED); Jay Mt., Aug (HarrED); Cranberry L., Je–Aug (H); Keene Val., May–Aug (Not); Luzerne, Je (HarrED); Clearwater, Jl (HarrED); Buffalo (Z&R); Ebenezer, Je (HarrED); Salmon Cr. (M&W); Tarbel, Je (Ds); Ithaca, Aug (Dt); Stamford, Aug–Sep (Harr); North Branch, Aug (Schaupp); Pawling, Aug–Sep (HarrED); L. George, Aug (HarrED); **SI,** May–Oct (L&D); **LI:** Far Rockaway, Sep (HarrED); Coram, May (Ds); Yaphank, Sep (Ds).

50 **C. repanda** Dej. Abundant in partly damp localities throughout the State (Lg). Keene Val. (Lint); Potsdam (Houghton); Axton, Je (M&H); Ausable Pt., Sep (Not); Raquette L., Jl (HarrED); Wilmington, Jl (Ds); Elizabethtown, Aug (HarrED); Long L., Piseco, L. Pleasant, Jl–Aug (NYS); Cranberry L., Je (H); Mountain View, Sep (Not); Clearwater, Jl (HarrED); Rochester (M&W); Rochester Jct., Jl (CU); Buffalo (Z&R); Ebenezer, Je (HarrED); Westfield, May (Not); Castile, *Brad* (Flet); Geneva, Middlesex, Aug (Cls); Ithaca, Jl (CU); Karner, Ap–Sep (NYS); Guymard, Je (HarrED); L. George, Jl (HarrED); Hoosick, Je (Harr); Saratoga, Je (HarrED); Debruce (Dow); Callicoon, Jl (HarrED,Ds); Quaker Hill, Sep (HarrED); West Pt. (Robn); Newburgh (Robn); Peekskill, Hastings, Yonkers, Dobbs Ferry, May–Jl (HarrED); White Plains (Sq); Van Cort. Pk., Oct (Bno); **SI**, Mar–Oct, often rather numerous on moist areas (L&D); **LI**: inhabits the loose sand beyond the beach (Lg); Flatbush, Coney I., Rockaway, Lawrence, Ruffle Bar, Long Beach, Oak I., Patchogue, Edgemere, Bay Shore, Quogue, Easthampton, Nissequogue, May–Sep (HarrED); Amagansett, Wading R. (Ds); Fire I., Sep (Ds); Gardiners I., Je (Ds); Orient, *Lath* (NYS).

51 **C. hirticollis** Say. **SI**, on seashore from early spring until late fall (L&D); **LI**: Coney I., Aug (Ds); Rockaway, Long Beach, Je–Aug (Harr); Oak I., Fire I. (Ds); Patchogue, Sep (HarrED); Promised Land, Wading R. (Ds).

51b **C. hirticollis** var. **rhodensis** Calder. **LI**: Gardiners I. (Ds); Far Rockaway (HarrED).

53 **C. tranquebarica** Hbst. (*vulgaris* Say). Wilmington, Jl (Ds, Dt); Elizabethtown, Aug (HarrED); Axton, Je (M&H); Raquette L., Jl (Harr); Jay Mts., Aug (HarrED); Potsdam (Houghton); Keene Val., Aug (Not); Mountain View, Sep (Not); Cranberry L., Je–Jl (H); Rochester (M&W); Buffalo (Z&R); Avon, May (Ols); Rock City, Je (Ds); Ithaca, Mar (Morr); Debruce, Je, Aug–Sep (HarrED); Cooks Falls and East Branch, Oct (Ang); Newburgh (Robn); Yonkers, Jl (HarrED); White Plains (Sq); **SI**, Mar–Sep, found only on a sand dune at Old Place in recent years (L&D); **LI**: West Hills; Wyandanch (Sf); Yaphank; Southold; Calverton, Springs, Gardiners I., Montauk, Mar–Sep (Ds); W. Hampton, E. Hampton, Quogue, Amagansett, Islip, Sep (Harr); Orient, Oct, *Lath* (Ds).

53c **C. tranquebarica** var. **horiconensis** Lg. Cranberry L., Jl (H); L. George (Lg); Pembroke (CU).

59 **C. longilabris** Say. Jay, Jl–Aug (HarrED, Britton); Mt. Whiteface, Jl (Ds); Keene Val., Jl–Aug (Not); Axton (M&H); Long L. (Ds).

68a **C. scutellaris** Say var. **lecontei** Hald. Elma, May (NYS).

68c **C. scutellaris** var. **rugifrons** Dej. Confined to the pine-barren regions of LI (Lg). Immaculate forms have been found at Aqueduct, Quogue, Southampton, and Amagansett in Sep (HarrED). The Aqueduct locality published by Joutel (Journ. N. Y. Ent. Soc., vol. 10, p. 249) is now destroyed (Lg). A form intergrading this with var. *modesta* very rarely found at Aqueduct and Southampton (HarrED). **LI**: Jamaica (Schaupp); Cold Sp. Harb., Aqueduct, Valley Stream, Springs, Calverton, Manorville, Yaphank, Wading R., May, Aug, Sep (Ds); Amagansett, E. Hampton, Southampton, Quogue, Islip, Springfield, Sep (HarrED); Shinnecock Hills, Sep, *Lg* (Bt).

68 **C. scutellaris** var. **modesta** Dej. Confined to pine barrens on LI and SI. Immaculate specimens mimicking *nigrior* formerly found at: Aqueduct (Lg); **SI,** Ap, Sep–Oct (L&D); **LI:** Cold Sp. Harb., May, Sep (Sf, Ds); Aqueduct, Aug–Sep (HarrED); Valley Stream, Aug (HarrED); Springfield, Sep (HarrED).

69 **C. sexguttata** Fab. Wilmington, Jl (Ds); Keene Val., May, Aug (Not); Newport, May (NYS); Elizabethtown, Aug (HarrED); Potsdam (Houghton); Cranberry L., Je–Jl (H); Lewis Co, Je (Hill-NYS); Luzerne, Je (HarrED); Rochester (M&W); Syracuse, Ap, May (H); Buffalo (Z&R); Avon, Geneva (Cls); Castile, *Brad* (Flet); Pike, May (NYS); Westfield, Je (NYS); Rock City, Je (Ds); Elmira, May (Diven); Ithaca, May–Je (Morr); McLean, Mar (Morr), May (Ds); Tarbel, Je (Ds); Saratoga, Je (HarrED); De Bruce (NYS); Schoharie (Not); Albany (Lint); Delmar, May (NYS); Nassau, May (NYS); Hoosick, Je (HarrED); West Pt. (Robn); Peekskill, Je; Hastings, Cornwall, May–Jl (HarrED); Haines Falls, Jl (HarrED); Guymard, Je (HarrED); White Plains (Sq); West Farms, May (Harr); **SI,** Mar–Aug (L&D); **LI:** Flushing, Wyandanch, Smithtown, Wading R., Yaphank, Gardiners I., Mar–Sep (Ds); Nissequogue, Je (HarrED); Farmingdale, Jl (CU). Inhabits climax forests, openings, paths, etc., sometimes in gardens (Lg). Rare, without spots, at Hoosick, Je; with two spots at Peekskill and Hastings, May; often with eight spots (HarrED).

69c **C. sexguttata** var. **harrisi** Lg. Elizabethtown, Aug (Lg); Luzerne, Jl (HarrED); L. George, Aug (Lg); Debruce, Je, Sep (Dow,Ds); Quaker Hill, Aug (HarrED); Cornwall, Jl (HarrED); Cooks Falls, Aug (Ang); E. Jewett, Aug (Ds); Stamford, Catskills, Aug (HarrED). An altitudinous variety of *sexguttata* (Lg).

70 **C. patruela** Dej. Conesus L., Je (Ds); Karner, May, Sep (NYS); West Pt. (Robn); Peekskill (HarrED). Confined to mountains; local (Lg).

70a **C. patruela** var. **consentanea** Dej. Confined to pine-barren regions of LI and known from few localities (Lg). **LI:** Port Jefferson (HarrED); Wyandanch, Mar–Ap, *Schott* (HarrED); Riverhead, Aug (Ds); W. Hampton, Sep (Wood); Quogue, Sep (HarrED).

74 **C. punctulata** Oliv. Upper Jay, Aug (Not); Jay Mts., Aug (HarrED); Crown Pt., Aug (Not); Elizabethtown, Aug (HarrED); Luzerne, Jl (HarrED); Keene Val., Jl (Not); Geneva (Cls); Rochester (M&W); Ithaca, Sep (CU); Saratoga, Aug (Dt); L. George, Aug–Sep (HarrED); Albany, Aug (Felt); Debruce, Sep (HarrED); Quaker Hill, Aug–Sep (HarrED); Haines Falls, Jl (HarrED); Kinderhook, Jl (HarrED); Yonkers, Jl (HarrED); Montrose, Jl (HarrED); West Pt. (Robn); White Plains (Sq); Mosholu, Jl (Bno); **SI,** Je–Sep, the most common species (L&D); **LI:** Far Rockaway, E. Hampton, Yaphank, Sep (HarrED); Farmingdale, Jl (CU); Southold, Montauk, Sep, Gardiners I., Aug (Ds). Widely distributed; flying to light and occasionally seen even in city streets and garden paths (Lg).

79 **C. abdominalis** Fab. **LI:** Riverhead, near Bald Hill; also in sandy road near Peconic R., Aug (Ds).

84 **C. marginipennis** Dej. Callicoon, Jl (HarrED, Lg, Ds); confined to pebbly flats of Delaware R. (Lg).

93 **C. unipunctata** Fab. Ft. Green, Je (Schaupp); Bronx Pk., Je (Lg, Bt); **LI:** Brooklyn (Schaupp). The records for this species are few and ancient, and do not clearly indicate it as an inhabitant of this State.

101 **C. dorsalis** Say. Albany, 1867 (NYS); **LI:** Coney I., Rockaway Beach, Jl–Sep (Sf); Fire I., Oak I., Long Beach, Edgemere, Arverne, Jl–Aug (HarrED). Confined to sea beach of LI, Montauk, etc.; formerly found also on SI, but probably exterminated about 1895 by commercial use of beaches (Ds). *C. signata* Dej. is a nearly immaculate form of *dorsalis*, found at Fire I., Rockaway, Coney I. (HarrED).

104 **C. marginata** Fab. Confined to muddy beaches of SI and LI (Lg); NYC, *Ang* (H); **SI,** Jl–Aug (L&D); **LI:** Coney I. (Lg); Sheepshead, Aug (NYS); Northport, Canarsie, Jl–Sep (Schaupp); Baywater, Far Rockaway, Ruffle Bar, Edgemere, Jl–Aug (HarrED); Wading R., Jl (Ds); Gardiners I., Aug (Ds); Montauk, Jl (Ang).

108b **C. cuprascens** Lec. var. **puritana** Horn. "NY" (Schaupp). The only record is ancient and indefinite. This species lives on river banks in sandy beaches and occurs in midsummer (Lg).

110 **C. lepida** Dej. Buffalo (Z&R); **LI:** Coney I., Je–Jl (Lg,Bt); Rockaway Beach (Lg); Long Beach, Arverne, Jl (HarrED). Confined in this State to limited areas of white sand near the beach (Lg).

FAMILY **CARABIDAE**

Compiled by HOWARD NOTMAN

SUBFAMILY **CARABINAE**

SCAPHINOTUS Dejean

125 **S. elevatus** Fab. Bronxville, Aug (Ds); NYC and vic. (Not); Van Cort. Pk., Aug (Woodr); **SI,** formerly common (L&D); **LI:** Jamaica Woods, May (Schaupp); Yaphank, May–Oct, *Shoe* (Eng); Brooklyn, Central Pk., May–Oct, *Shoe*; Syosset, Nassau Co, Nov, *Eng* (Not).

128 **S. viduus** Dej. Axton, Je (M&H); Whiteface Mt., 4200 ft., Oct (Lg); Keene Val., 1000 ft., Aug (Not); Crown Pt., Aug (Not); Keeseville, Sep (Lg); Hope (Castle); Mt. Hopkins, 2500 ft., Je (Not); Batavia, Je, *Kngt* (Lg); Buffalo and vic. (Z&R); Cattaraugus Co, Je, *Ds*; Tompkins Co, several localities (Dt, Vdyk); Ithaca, Mar, *Kngt*; Hunter, Je; Catskills, *Vdyk* (Pears, Roeschke); North Branch (Schaupp); Yonkers (L&B); Mosholu (L&B); W. Dunwoodie; Manhattan I., *Joutel*; NYC, Oct (Lg); **SI,** rare (L&D); **LI:** Inwood, Jl, Sep, *Skinner*, Oct, *Joutel*.

NOMARETUS LeConte

134 **N. bilobus** Say. Whiteface Mt., Jl, *Ds*; Wallface Mt., 3000 ft., Jl. *Nic* (Not); Buffalo vic., *Rein*; Catskills, Jl (Beyer).

SPHAERODERUS Dejean

160 **S. canadensis** Chd. Mt. Whiteface (Lg); Mt. Marcy, 3500 ft., Jl (Not); Wilmington, 1500 ft., Aug (Dt); Keene Val., 1500 ft., Je (Not); Sodus Pt., Je (Not); Monroe Co, *Moore* (Wendt); Rock City, Je, *Dt* (Vdyk); Ithaca, Ap (Vdyk), Oct 9, *Walton* (Vdyk); Coy Glen, Jl, *Dt* (Vdyk); Caroline, Ap, *Dt* (Vdyk); Hebron (Lg); Slide Mt., 2500 ft., Jl, *Shoe*; North Branch (Schaupp); Debruce, Jl, *Shoe* (Lg); Minnewaska, Aug (Nic).

162 **S. lecontei** Dej. Upper Jay, Sep (Lg); Keene Val., Je, Aug, Oct (Not); Chateaugay, Sep (Lg); Johnstown, Oct (Vdyk); Syracuse, Ap (H); Monroe Co (*M&W*); Karner, Nov (Vdyk); Olcott, Ap (Dt); Buffalo vic. (Z&R); Erie Co, May (Dnd); Rock City, Je; Red House, Je (Not); Ithaca, Ap (Kngt); McLean, May, *Ds*; Albany, *Lint*; Whitehall, Oct (Not); W. Hebron, Oct (Lg); Catskill (Lg); Ulster Co, Sep (Lg); Peekskill, *Sherman*; West Pt., *Robn*; Greenwood L.; Ramapo, Ap, *Ds*; Mosholu; White Plains, Ap (Sq); Bronxville, Mar–Ap (Woodr); NYC, Sep (Lg); Inwood, Manhattan I., Oct, Sep, *Ds*; Manhattan I., Sep, *Joutel*; Van Cort. Pk., Mar–Ap (Not, Woodr); **SI**: Mar–May, Nov, once not uncommon, now rare (L&D); Sandy Brook, Ap; **LI**: Yaphank, Jl–Aug, Wading R., May, *Ds*; Brooklyn, Ap–Oct, *Shoe*.

162a **S. lecontei** var. **niagarensis** Lap. "NY", *Lec*. Probably only a synonym of *lecontei* (Nic).

164 **S. nitidicollis** Chev. var. **brevoorti** Lec. Mt Whiteface, Sep (Lg); Wallface Mt., Je (Quirsfeld & Nic); Green Mt., 3000 ft., Jl (Not); Mt. Marcy, 5000 ft., Jl (Not).

CARABUS Linnaeus

170 **C. sylvosus** Say. Keene Val., Sep (Not); Cascade Lakes, Aug, *Brb*; Gloversville, May; Monroe Co, May, *M&W*; Buffalo (Dnd); Carmel, Aug; **LI**: near Ridgewood, Greenville, Je (Schaupp); Yaphank (Eng); Bellport, Wading R. (Nic). Apparently occurs wherever pines are found (Nic).

171 **C. serratus** Say. Keene Val., May–Jl, Mooers, Sep (Not); Gloversville, May (Sf); Monroe Co, *M&W*; Buffalo vic. (Z&R); Rock City, Je (Vdyk); Ithaca, Aug (Vdyk); Butternut Cr., May (Dt); Larch Meadows, Tompkins Co, Je (Dt); Catskill, Jl, Catskills, Aug (Sf); West Pt., *Robn*; Morrisania; Peekskill (Vdyk); Ramapo Mts.; Lowerre, Ap (Woodr); NYC vic., Ap (Woodr); **SI**, Mar–Je (L&D); **LI**: Bronx Pk., Brooklyn, Ap–Aug, *Shoe*.

172 **C. limbatus** Say. Gloversville, Aug (Lint); Olcott, Je (Dt); Monroe Co (M&W); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap, Aug, Larch Meadows, May, Six Mile Cr., Sep (Dt); Windsor, Je (Not); Karner, Ap, Kenwood, May (Lint); Washington Co, Je, *Lg*; W. Hebron, Je (Lg); Greenwood L.; Poughkeepsie, Je (Lint); West Pt.; Pine I. (Ang); Peekskill (Vdyk); White Plains, Mar–Aug, *Brownell*; Carmel, Aug; Mosholu; NYC, Ap–May, Sep, *Shoe*; Van Cort. Pk., Mar–Ap (Woodr); **SI**, Mar–Aug (L&D); Clifton, Ap; Clove Val., Jl–Aug, *Ds* (Not); **LI**: Greenville, Jamaica Woods, Bay Ridge, May–Sep (Schaupp); Yaphank, Sep, Oct, *Ds* (Not); Brooklyn, Ap–May, Sep, *Shoe*; Parkville; Selden, Aug, *Ds*; Central Pk., Ap (Not); Half Way Hollow Hills, Jl, Wading R., May, *Ds* (Not). Common everywhere under stones and boards, and in bait bottles (Nic).

173 **C. vinctus** Web. Buffalo (Z&R); Cedar Hill, Ap; Karner, Jl, *Hill*; West Pt., *Robn*; Nyack, Je, *Brownell*; Westchester Co, May, Ap (Woodr); Van Cort. Pk., Mar–Ap (Woodr); NYC, Inwood, *Ds*; **SI**, Ap–Je, Sep (L&D, Not); **LI**: Pennybridge, E. New York, Bay Ridge, May–Sep (Schaupp). Found with preceding species but not so abundant, and, although fairly generally distributed, more local (Nic).

175 **C. nemoralis** Mull. Monroe Co, May (M&W); White Plains, Mar–Nov (NYS); Bronx (Ang); Van Cort. Pk., May, *Ang*; **SI,** May, *Ds*; **LI:** Winfield, Jl (Ols); Brooklyn, Ap–May, *Schott, Shoe.*

CALOSOMA Weber

176 **C. externum** Say. Newburgh, *Martin*; NYC; Central Pk., *Ds* (*Martin*); **SI,** Je–Jl, *Ds*; **LI:** Ridgewood, Greenville, Jl–Sep (Schaupp).

180 **C. scrutator** Fab. Buffalo (Z&R); Monroe Co, *M&W*; Ithaca, Jl (Vdyk); Albany, *Lint*; Poughkeepsie, Je (Sf); West Pt. (Robn); Nyack, Je, *Brownell*; White Plains (Sq); NYC, May–Jl, *Ds* (Woodr); **SI,** Je–Aug, *Nabenhauer* (L&D); **LI:** Orient, May, Jl, *Lath* (Not-NYS); Rockaway Beach, Je–Jl, *Shoe* (Vdyk); Coney I. (Schaupp); Greenbush, *Jordan* (Lint); Yaphank, Je, *Ds*; Long Beach, Babylon, *Bradford*; Brooklyn, Je–Jl, *Shoe*; seashore (Not). Often common in wash-up on seashore, Je–Sep (Nic).

181 **C. wilcoxi** Lec. Buffalo (Z&R); West Pt. (Robn); White Plains (Sq); NYC, May–Je (Schaupp&Woodr); **LI:** Bellport, Wading R., May, *Nic&Ds* (Nic); Rockaway Beach, May–Je, *Shoe* (Woodr, Not); Wading R., Je (Not); Orient *Lath* (NYS); Long Beach, *Brownell* (Lg).

182 **C. sycophanta** L. Albany (Lint); White Plains (Frost, Sq); **LI:** Flatbush (Schott, Sf).

183 **C. frigidum** Kby. Newport, May, Saranac Inn, Je (Felt); Wallface Mt., 3100 ft., Jl (Nic); shore of L. Ontario, near Pulaski, Je, *Chapman*; Olcott, Jl (Dt); Monroe Co, *M&W*; Buffalo (Z&R); Pike (Felt); Batavia, Ap, Je, *Kngt*; E. Aurora (Dnd); Chipmunk Swamp, Vandalia, Je, *Ds* (Not); Rock City, Je, *Ds* (Not); Castile, (*Brad, Flet*); Tarbel, Je, *Ds*; Elmira, May (Diven); Nichols, May (Not); Ithaca, Je (Dt); Albany, Je (Felt); Garrison, *Cattell*; West Pt., Je (Robn); Bronxville, Je (Woodr); White Plains, Je (Sq); **LI:** Bellport (Nic); Wading R., May, *Ds* (Nic); Nissequogue, Je, *Ds.*

184 **C. sayi** Dej. Vic, NYC tollgate, May (Schaupp); **SI,** *Ds*; **LI:** Babylon, Je (Bradford).

204 **C. calidum** Fab. Peru, Je, *Cy&Fbs* (Vdyk); Axton, Je, *M&H*; St. Lawrence Co (Houghton); Wilmington, Jl, *Ds*; Keene Val., May–Je (Not); Lowville, *Hough*; Monroe Co, *M&W*; Olcott, May, Jl (Dt); Batavia, Je, Jl, Aug, *Kngt*; E. Aurora, Boston (Dnd); Buffalo (Z&R); Ithaca, Ap–Je, *Hamilton* (Vdyk, Dt); Butternut Cr., May (Dt); McLean Bogs, Je (Dt); Tarbel, Je, *Ds*; Groton, Je, *Chapman*; Elmira, May (Diven); Windsor, May (Not); E. Jewett, Aug, *Ds*; Orange Co, Ap, *Faure*; Albany, *Lint*; West Pt. (Robn); Nyack, Je, *Brownell*; White Plains, Ap (Sq); NYC, May–Oct (div.); **SI:** Ap–Je, *Ds*; Castleton Grounds, St. George, Sep, *Ds*; **LI:** Brooklyn (Vdyk); Orient, May–Je, *Lath*; Hauppauge, Je, *Ds*; Bergen Beach, May; Brooklyn, Apr–Jl, *Shoe.* Common in fields (Nic).

ELAPHRUS Fabricius

222 **E. clairvillei** Kby. Wallface Mt., Jl, common (Not&Nic); Ausable L., Jl (Not); Mt. Redfield, 3000 ft., Jl (Not); top of Whiteface Mt., Jl, *Ds*; Cape Vincent, Sep (Not); Oakfield, Je (Not); Buffalo, *Rein*; Ithaca, May (Dt); McLean Bogs, Jl (Dt).

230 **E. riparius** Linn. Tompkins Co: Inlet Val., Jl (*Dt*); Beebe L., Jl (Vdyk); Ithaca, Je (Vdyk); N. Lansing, Je (Vdyk).

225 **E. olivaceus** Lec. L. Tear, 4200 ft., Jl, Moss Pond, 4200 ft., Mt. Redfield, Wallface Mt., 3000 ft., Jl (Not); McLean Bogs, May, *Diven* (Vdyk., Dt); Catskills, *Ulke* (Lec).

226 **E. cicatricosus** Lec. Buffalo, Je; Red House, Je (Not); Larch Meadows, Aug, *Hamilton* (Vdyk); Ringwood, Jl, *Dt* (Vdyk); Windsor, May (Not); Orangeburg, Ap–May (Not&Nic); **LI:** Steinway, *Julich* (L&B); Brooklyn, May–Jl, *div.*

228 **E. fuliginosus** Say. Lower Ausable L., Keene Val. (Not); Tarbel, Je, *Ds*; Catskill; **LI:** Brooklyn, Ap, May, *Shoe* (Sf); Jamaica Bay Marshes, Ap (Woodr); Canarsie, Ap–May (Not).

233 **E. ruscarius** Say. Common everywhere along mud flats, Ap–Je (Nic); Ausable L., Jl, Moss Pond, 4200 ft., Jl, Crown Pt., Jay, Aug, Mountain View, Sep (Not); Newport, May; St. Lawrence, *Houghton*; Waterville, Je (Not); Syracuse, May (H); Monroe Co, *M&W*; Sodus Pt., Je (Not); Batavia, May, Je, *Kngt*; Buffalo (Z&R); Erie Co (Dnd); Pike, Je (NYS); Westfield, May; Mayville, May (Not); Chautauqua, *Thompson*; Inlet Val., Jl, *Dt* (Vdyk); Cascadilla Cr., May (Vdyk); Ithaca, May–Je (Vdyk); Tarbel, Je, *Ds*; Windsor, Je (Not); Schoharie, Je (Not); Greenville (Schaupp); Wingdale (Vdyk); West Pt., *Robn*; Ft. Hunter, May–Je (Not); Westchester, Ap (Woodr); White Plains (Sq); Bronxville, May (Woodr); Van Cort. Pk., Je (Woodr); NYC (Martin); West Farms, Mar, *Joutel*; **LI:** E. New York, Brooklyn, Ap–Je, May, *Ds*, *Shoe*; Ft. Hamilton, Ap (Woodr).

BLETHISA Bonvouloir

237 **B. quadricollis** Hald. Buffalo (Z&R); McLean Bogs, Jl (Dt, Vdyk); Catskill, Sep.

238 **B. multipunctata** L. St. Lawrence Co, *Houghton.*

LORICERA Latreille

241 **L. caerulescens** L. (*pilicornis* Fab.). Ausable L., Jl–Aug, Crown Pt., Aug, Mountain View, Sep (Not); Rochester (M&W); Batavia, Je, *Lg*; E. Aurora (Dnd); McLean, Ap (Flet).

NOTIOPHILUS Dumeril

246 **N. aeneus** Herbst. Keene Val., Je–Jl, Mooers, Sep (Not); Tarbel, Je, *Ds*; McLean, Ap (Flet); West Pt. (Robn); NYC, Je–Sep (Schaupp); **SI,** Ap, Jl, *Lg*; **LI:** Rockaway Beach, *Shoe* (Vdyk); Wading R., May, *Ds*; Parkville; Aqueduct, May–Je, *Shoe*; Far Rockaway, Je (Woodr).

247 **N. semistriatus** Say. Mt. Whiteface, 2000 ft., Aug, *Bdy*; St. Lawrence Co, *Houghton*; Peekskill (Vdyk); Nyack, Je, *Brownell*; NYC (Schaupp); **SI,** Je, *Lg* (Fall, Say); **LI:** Wading R., May, Yaphank, Sep, Half Way Hollow Hills, Jl, *Ds.*

248 **N. aquaticus** Linn. Keene Val., Ap (Not); Mt. Marcy, 5300 ft., Jl, Oct (Not&Lg), 4500 ft., Jl, *Lg* (Fall&Not); Mt. Redfield, 4500 ft., Moss Pond, 4200 ft., Jl (Not); Mt. View, Sep (Not).

251 **N. novemstriatus** Lec. Batavia, Je, *Lg*; West Pt. (Robn); Peekskill (Vdyk); Bronxville, Mar–Ap (Woodr); **SI,** Ap, Je, Nov (Lg&Shoe); **LI:** West Hills, Ap, *Ds*; Aqueduct, Mar, *Shoe*; Yaphank, May (Not); Farmingdale, Mar (Not).

— **N. parvus** Csy. Catskills, *SmHH* (Csy). NY, type locality (Lg).

252 **N. nemoralis** Fall. Wallface Mt., 3000–4000 ft., Jl (Not).

NEBRIA Latreille

276 **N. sahlbergi** Fisch. Summit of Mt. Marcy, Jl (Not); Monroe Co (M&W); Pike (Say).

285 **N. suturalis** Lec. Buffalo (Z&R).

292 **N. pallipes** Say. Upper Ausable L., Jl–Aug, Ausable Pt., Sep, Mooers, Sep (Not); Wilmington, Plattsburg, Jl, *Ds* (Not); Mt. Marcy, Dec; Mountain View, 1500 ft., Sep, Chaumont, Sep (Not); Chateaugay L., 2000 ft., Aug–Sep; Waterville, Je (Not); Monroe Co (M&W); Forest Lawn, Je, *Zab* (Not); Buffalo (Z&R); Conesus, Aug; Pike, Je; Montour Falls, Je (H); Chautauqua, *Thompson*; Westfield, May (Not); Ithaca, Jl, Aug–Sep, *Hamilton* (Vdyk&Dt); Buttermilk Cr., Jl (Dt); Inlet Val., Jl (Dt&Vdyk); Ft. Hunter, Je (Not); Schoharie, Je (Not); Albany, *Lint*; W. Hebron, Je (Woodr); Washington Co, Je, *Lg*; West Pt., Je, Aug, *Robn&Ds* (Not); Peekskill; White Plains, Sep, *Sq* (Sf); Bronx R. (L&B); Bronx Pk., Jl, *Shoe*; **SI,** Je–Sep, Nov, *Ds*; **LI:** Forest Pk., Je (Not). Common everywhere near water all the year (Nic).

PASIMACHUS Bonvouloir

302 **P. sublaevis** Beauv. **SI,** *Bischoff*; **LI:** Coney I., Je (Schaupp); Rockaway Beach, Je–Jl, *Shoe* (L&B); Fire I., Sep, *Ds*; Long Beach, Jl (Lg); Rockaway.

302a **P. sublaevis** var. **substriatus** Hald. **LI** (Hald&Lec); Coney I. (Schaupp).

308 **P. depressus** Fab. **SI** (Bischoff, Stortz & Not); **LI:** Yaphank, *Wks* (Sf); Coram, Yaphank, Aug (Nic).

SCARITES Fabricius

316 **S. subterraneus** Fab. Common everywhere, even in cities, almost all the year around (Nic); Buffalo (*Z&R*); Boston (Dnd); Albany, Oct, *Lint* (Say); W. Hebron, Je (Lg); West Pt., *Born*; Peekskill (Vdyk); Bronx, Ap; Dunwoodie; White Plains, Jl (Sq); NYC vic. (Schaupp); NYC, Aug, Oct (Woodr); Central Pk., Nov, *Ds*; **SI,** spring–Dec, *Lg* (Vdyk); **LI:** Nissequogue, Je, Wading R., Aug, *Ds*; Astoria; Brooklyn, Ap; Orient Pt, May, *Lath* (Say).

DYSCHIRIUS Bonvouloir

323 **D. aeneus** Dej. (*integer* Lec.). Croton, Je, *Brownell* (Lg).

324 **D. nigripes** Lec. Mooers, Sep, Ausable Pt., Sep, Chapel Pond, Je, Upper Jay, Aug, Crown Pt., Aug, Lowville, Je, Waterville, Je (Not); Syracuse, May (H); Sodus Pt., Je (Not); Monroe Co (M&W); Oakfield, Je (Not); McLean Bogs, Aug, *Dt* (Vdyk); Ithaca, Jl, Howland I.,

Nov (Vdyk); Washington Co; Peekskill (Vdyk); **SI**, Jl, *Ds*; **LI.** Common in spring. Generally distributed (Nic).

330 **D. longulus** Lec. Keene Val., May–Aug, Wallface Mt., Jl, Mt. Skylight, 4900 ft., Jl, Mt. Colden, 4500 ft., Jl, Mt. Marcy, 5300 ft., Jl (Not); Batavia, Je, *Lg*.

331 **D. globulosus** Say. Common everywhere in spring (Nic); Whiteface Mt., Jl, Mt. Marcy, Oct, *Lg*; Keene Val., Aug (Not); St. Lawrence Co, *Houghton*; Sodus Pt., May (Not); Monroe Co (M&W); Olcott, Oct (Dt); Buffalo (Z&R); Ithaca, Jan, May, Jl–Aug, *div.* (Vdyk); Canisteo, Je (Not); McLean Bogs, Aug, *Dt* (Vdyk); Nichols, May (Not); Windsor, Je (Not); W. Hebron, Je (Lg); West Pt., *Robn*; Ft. Montgomery, May (Not); Peekskill (Vdyk); Bronxville, Mar (Woodr); NYC vic., Je, *Ds* (Schaupp); **LI:** Rockaway Beach, May–Je, *Ds, Shoe* (Not); Far Rockaway, Aug (Woodr); Farmingdale, Mar, Canarsie, May (Not); Wyandanch, May, *Ds*.

333 **D. terminatus** Lec. Monroe Co (M&W); Hudson Falls, Aug (Vdyk); Peekskill (Vdyk).

334 **D. haemorrhoidalis** Dej. Sacandaga, Aug (H); Sylvan Beach, Je (Not); Pike, Aug (H); Peekskill, *Sherm.*

336 **D. affinis** Fall. Peekskill, *Sherm.*

339 **D. sphaericollis** Say. Crown Pt., Aug (Not); St. Lawrence Co, *Houghton*; Sylvan Beach, Je, Waterville, Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Westfield, May, Canisteo, Je (Not); Ithaca, May, Jl, *div.* (Vdyk); Inlet Val., *Dt* (Vdyk); Ft. Hunter, May–Je, Schoharie, Je (Not); Washington Co (Vdyk); Wingdale (Vdyk); NYC, May–Sep (Schaupp); **SI**, Je, *Lg*; **LI:** Coney I. (Schaupp); Rockaway (L&B); Long Beach (L&B).

340 **D. edentulus** Putz. Ithaca, Jl, *Hamilton* (Vdyk).

— **D. aureolus** Not. Schoharie, Je (Not).

342 **D. erythrocerus** Lec. Canisteo, Je (Not); W. Hebron, Je (Lg); NYC, May–Sep (Schaupp); **SI**, Jl, *Ds*; **LI:** Coney I., Rockaway, and Long Beach (L&B); Rockaway Beach, May, *Ds* (Not).

345 **D. sellatus** Lec. **LI:** Rockaway Beach, Jl, *Shoe, Ds* (Vdyk); Coney I., Je–Sep, *Julich* (Schaupp); Long Beach (L&B).

346 **D. pallipennis** Say. Sylvan Beach, Je (Not); **LI:** Coney I., *Schaupp*, Long Beach (L&B).

349 **D. filiformis** Lec. **LI:** Coney I., Je–Sep, *Julich* (Lec&Lg); Rockaway Beach, May–Je, *div.* (Not).

352 **D. pumilus** Dej. **LI:** Coney I., Rockaway Beach (L&B).

355 **D. hispidus** Lec. Rochester (M&W).

356 **D. setosus** Lec. Batavia, Je, *Lg*; Oakfield, Je (Not); Red House, Je, Nichols, May (Not); **LI:** Brooklyn, May, *Ds* (Not).

CLIVINA Latreille

358 **C. dentipes** Dej. **LI:** Orient Pt., Je; Rockaway.

359 **C. impressifrons** Lec. Sacandaga R., Aug; Rochester (M&W); Olcott, Je–Jl (Dt); Batavia, Aug, *Kngt*; E. Aurora (Dnd); Buffalo (Z&R); Croton, Je, *Brownell*; Windsor, Je (Not); Durlandville, Ap, *SWFrost* (Vdyk); **LI:** Rockaway (Vdyk); Babylon; Rockaway Beach, May, Je, *Shoe* (Woodr); Orient, *Lath* (NYS).

366 **C. rufa** Lec. Ausable Pt., Sep (Not); Monroe Co (M&W); **SI,** May, *Ds.*

369 **C. americana** Dej. Ausable Pt., Sep, Crown Pt., Aug (Not); Hessian L. (Vdyk); Lowville, Je, Waterville, Je, Oakfield, Je, Westfield, May (Not); Olcott, May, Jl (Dt); Ithaca, May, Sep, *Dt* (Vdyk); McLean Bogs, Jl–Aug, *Hamilton, Dt* (Vdyk); Ft. Hunter, May (Not); W. Hebron, Je (Lg); Tivoli, May, Ft. Montgomery, May (Not); West Pt. (Robn); Peekskill; Bronx Pk. (Not); NYC vic. (Schaupp); **SI,** May, *Lg*; **LI:** *Lg*; Brooklyn, Mar, Je, *Shoe.*

372 **C. striatopunctata** Dej. Fishkill, May, *Brownell* (Lg); Orangeburg, May (Nic); **SI,** Ap, *Lg*; **LI:** Brooklyn, Ap–May, *Shoe*; Rosedale, Je 3 (Nic).

375 **C. bipustulata** Fab. Monroe Co (M&W); NYC, *Bt*; **SI,** May–Jl, *L&D* (L&B); **LI:** Rockaway Beach, Ap–Je, *Shoe* (Woodr).

370 ?**C. morula** Lec. **LI** (Lec, Horn).

SCHIZOGENIUS Putzeys

382 **S. planulatus** Lec. E. Aurora (Dnd); Canisteo, Je (Not); Taughannock Gorge, May, Aug, *Dt* (Vdyk); **LI:** Coney I. (Schaupp).

383 **S. lineolatus** Say. Mooers, Sep, Jay, Aug (Not); Newport, May, *Yg*; Lowville, Je (Not); Monroe Co (M&W); Sodus Pt., Je (Not); Buffalo (Z&R); Portage, *Yg* (Lint); Westfield, May (Not); Canadice, Je, Canisteo, Je (Not); Inlet Val., May, Jl, Taughannock Gorge, May, Aug, *Hamilton, Dt* (Vdyk); Ithaca, Je, Aug, *Hamilton* (Vdyk); Norton's, Cayuga L., May, *SmHH* (Vdyk); Nichols, May, Windsor, Je, Ft. Hunter, May–Je, Schoharie, Je (Not); Albany, *Lint*; W. Hebron, Je (Lg); Esopus (Vdyk); West Pt. (Robn); Stony Pt., Ramapo, Je, *Ds.*

385 **S. ferrugineus** Putz. Monroe Co (M&W); Buffalo (Z&R); **SI,** May (Bischoff); **LI:** Rock Beach (Vdyk).

386 **S. amphibius** Hald. Newport, May, *Yg*; Lowville, Je (Not); Keene Hgts., Jl (Not); Sodus Pt., Je (Not); E. Aurora (Dnd); Westfield, May (Not); Canadice, Je (Not); Canisteo, Je (Not); Ithaca, May, Jl, *Hamilton* (Vdyk); Taughannock Gorge, May, *Dt* (Vdyk); Inlet Val., May, Jl, *Dt, SmHH* (Vdyk); Norton's, May, *SmHH* (Vdyk); Croton, May, Je, *Brownell*; Nichols, May (Not); Windsor, Je (Not); Ft. Hunter, Je (Not); Albany, *Lint*; Esopus (Vdyk); West Pt. (Robn); Stony Pt., Je, *Ds*; Ft. Montgomery, May (Not); Peekskill, *Sherm* (Vdyk).

ARDISTOMIS Putzeys

395 **A. viridis** Say. Buffalo (Z&R); Esopus (Vdyk); Peekskill, Je, *Sherm* (Vdyk); **LI:** Rockaway, Je (Schaupp).

SUBFAMILY HARPALINAE

PANAGAEUS Latreille

398 **P. crucigerus** Say. **LI:** Cypress Hill Cemetery, May–Je, under stone (Schaupp); Amityville, May (NYS); Rockaway Beach, Brooklyn, May, *Shoe,* at beach, in wash-up and under stone (Sf).

399 **P. fasciatus** Say. Albany, May, *Yg* (NYS); **LI:** Cypress Hill Cemetery, May–Je, under stones (Schaupp); Rockaway Beach, Je, *Ds.*

NOMIUS Laporte

404 **N. pygmaeus** Dej. Keene Val., Je (Not); Saranac, Aug (NYS); St. Lawrence Co, *Houghton*; Ithaca, Je, Sep, at light (Vdyk).

BEMBIDION Latreille

731 **B. fraternum** Lec. Callicoon (Lg); **LI:** Newtown, Je (Lg).

408 **B. inaequale** Say. Adirondack (Hayw); Keene Val., Je (Not); Crown Pt., Aug (Not); Mountain View, Sep (Not); Sodus Pt., May, Je (Not); Sylvan Beach, Je (Not); Waterville, Je (Not); Monroe Co (M&W); Buffalo (Hayw); Lancaster, Jl (Lg); E. Aurora (Dnd); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Jl (Dt); Windsor, Je (Not); Ft. Hunter, Je (Not); Schoharie, Je (Not); Orangeburg, Ap (Not); Bronx Pk., Ap; West Farms.

411 **B. littorale** Oliv. Saranac Inn, Je (NYS); Buffalo (Z&R).

412 **B. lacustre** Lec. Ausable L., Je, Jl (Not); Keene Val., Je (Not); Indian Pass, Jl (Not); "NY" (ANSP).

416 **B. carinula** Chd. Adirondacks (Hayw); Crown Pt., Aug (Not); Ausable L., Jl (Not); Hamilton Co; Monroe Co, rare (M&W); Buffalo and vic. (Z&R); Caldwell, L. George, Jl, *Zab* (Not).

419 **B. punctatostriatum** Say. Inlet of Upper Ausable L., Jl, on sand bank, (Not); Lower Ausable L., Je (Not); Keene Val., Je (Not); Indian Pass, Jl (Not); Newport, Sep (NYS); Sylvan Beach, Je (Not); Sodus Pt., May, Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Canisteo, Je (Not); Ithaca, May, Jl (Morr, Dt); Nichols, May (Not); Windsor, Je (Not); Albany, Je (NYS); Ft. Hunter, May, Je (Not).

426 429 **B. confusum** Hayw. (*coxendix* Say). Sylvan Beach, Je, very abundant on beach, L. Oneida (Not); Pike, Aug (NYS).

432 **B. americanum** Dej. Sodus Pt., Je (Not); Monroe Co, rare (M&W); Red House, Je (Not); Whitehall, Oct (Not); Van Cort. Pk., *Bradford*; Bronx Pk.; **SI:** May–Je, Aug (Nic); Clove Val., Sep, on mud flat, flying when approached, *Ds*; **LI:** Jamaica (Nic); Far Rockaway, Je (Woodr); Flushing, Je, *Bell* (Not); Calverton, Sep, *Ds*.

438 **B. nitidum** Kby. Keene Val., Je–Jl (Not); summit of Mt. Whiteface, Jl, *Ds* (Not); N. Elba, Oct (Lg); Sodus Pt., Je (Not); Monroe Co (M&W); Buffalo (Z&R).

440 **B. laevigatum** Say. Buffalo (Dnd); Olcott, Sep (Dt).

— **B. basicorne** Not. Keene Hgts., Je–Jl (Not); Springwater, Je (Not); Westfield, May (Not); in "the Gulf," Chautauqua Co; Windsor, May (Not); Rensselaerville, May (Not).

476 **B. rusticum** Csy. Catskills, *SmHH* (Cy).

486 **B. simplex** Hayw. Ausable L., Keene Val., Je–Jl (Not); John's Br., Aug (Not); Crystal Br., Ausable L., Je–Aug (Not); Indian Pass, Jl (Not); Keene Hgts., Je–Jl (Not); E. Marcy Br., 3200 ft., Jl (Not); Feldspar Br., Mt. Marcy, 4000 ft., Jl (Not); Cliff Mt., 3500 ft., Jl (Not); Lowville, Je (Not); Monroe Co (M&W); Springwater, Je (Not); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Aug, *Dt* (Vdyk); Windsor, May, Je (Not); Ft. Hunter, Je (Not); Hebron, Je (Lg); Catskills, *Nic* (Not); **LI:** Jamaica, *Nic* (Not).

— **B. occultator** Not. Mt. Redfield, Jl (Not).

— **B. notmani** Csy. NY, type locality.

— **B. essexense** Csy. NY, type locality.

— **B. keeneanum** Csy. NY, type locality.

487 **B. planiusculum** Mann. Keene Val., Jl (Not); Indian Pass, Jl (Not); Keene Hgts., Jl (Not); Keene, Jl (Not); Waterville, Je (Not); Westfield, May (Not); Windsor, Je (Not); Canisteo, Je (Not); Buttermilk Glen, Ithaca, Jl (Lg); Windsor, Je (Not); Schoharie, Je (Not).

489 **B. complanulum** Mann. Ausable L., Jl (Not); Indian Pass, Jl (Not); Keene Val., 1500 ft., Jl–Aug (Not); Keene Hgts., Jl (Not); Waterville, Je (Not); Westfield, May (Not); Windsor, Je (Not).

512 **B. nigrum** Say. Indian Pass, Jl (Not); Ausable Forks, Aug (Not); Upper Jay, Aug (Not); Jay, Aug (Not); Ausable L., Jl (Not); Keene Hgts., 1500 ft., Jl (Not); Keene, Jl (Not); Mooers, Sep (Not); Keene Val., Je (Not); Lowville, Je (Not); Saranac L., Sep, *Shoe*, under pebbles on beach (Sf); Waterville, Je (Not); Sodus Pt., Je (Not); Monroe Co (M&W); Erie Co (Dnd); Canadice, Je (Not); Westfield, May (Not); Waccabuc, Jl (Not); Canisteo, Je (Not); Tarbel, Je, *Ds* (Not); Nichols, May (Not); Windsor, Je (Not); Ft. Hunter, May–Je (Not); Bolton, Aug (Lg); W. Hebron, Je (Lg); Whitehall, Oct (Not); Catskills, *Nic* (Not); Ulster Co, Sep, *Nic* (Lg); Ft. Montgomery, May (Not); Bronxville, May (Woodr); NYC and vic.; **SI**, Jl, Sep; **LI:** Jamaica, *Nic* (Not).

521 **B. concolor** Kby. Buffalo, vic. (Z&R); Ausable Pt., abundant, Whitehall, Crown Pt., Aug–Oct (Not). Abundant on beach, L. Champlain.

522 **B. consessor** Csy. Bluff Pt., L. Champlain (Csy).

533 **B. planum** Hald. Keene Hgts., 1500 ft., Crown Pt., Keene, Upper Jay, Jay, Mooers, Cape Vincent, Lowville, Waterville, Sodus Pt., Je–Sep (Not); Monroe Co (M&W); Buffalo (L&B); E. Aurora (Dnd); Canadice, Westfield, Canisteo, May, Je (Not); Ithaca, May, *Dt* (Morr, Vdyk); Taughannock, Nichols, Windsor, Ft. Hunter, Whitehall, Catskills, May–Oct (Not); NYC (Hald).

536 **B. fugax** Lec. Monroe Co, rare (M&W); Buffalo (Z&R); Canisteo, Nichols, May, Je (Not); Taughannock Gorge, Jl (Lg); Ft. Hunter, May–Jl, *Not* (Lg); Esopus, Aug, *Sherm,Jr.* (Lg); Suffern; Ramapo, Je; West Pt. (Robn).

540 **B. transversale** Dej. Newport, Albany, May (Say); Inwood, May, Oct.

560 **B. nitens** Lec. Mt. Marcy, 5000 ft., Wallface, 3500 ft., Keene Val., 1000 ft., summit of Mt. Dix, Mt. Marcy, 5300 ft., Mt. Haystack, 4900 ft., Mt. Colden, 4500 ft., Mt. Whiteface, top, Ap–Oct (Not).

567 **B. militare** Csy. **LI:** Willetts Pt. (Csy).

572 **B. picipes** Kby. Port Kent, in small brook near L. Champlain, Sep (Not); Newport, Je, *Yg* (NYS); St. Lawrence Co, *Houghton*; Chaumont, Lowville, Utica, Waterville, Je–Sep (Not); Monroe Co (M&W); Olcott, Ap (Dt); Buffalo (Z&R); Montour Falls, Ap (H); Pike, Jl, *Yg* (NYS); Canadice, Springwater, Westfield, Canisteo, Windsor, Schoharie, Whitehall, May–Oct (Not); Ithaca, Spencer, *Dt* (Vdyk); Poughkeepsie, Je, *Yg* (NYS); Peekskill, *Sherm* (L&B); Tivoli, May (Not); Newport, Je, *Yg* (NYS); **LI:** Coney I., Rockaway, Je–Jl, *Lg* (Schaupp, L&B).

573 **B. scopulinum** Kby. John's Br., Crystal Br., Upper Ausable L., Ausable Lakes, 2000 ft., Ausable Chasm, Wallface Mt., 3000 ft., Keene Hgts., Cliff Mt., 3000 ft., Shanty Br., shore of L. Ontario, near Pulaski, Lowville, on Roaring Br., Je–Sep (Not); Johnstown, Gloversville, Ap (NYS); Sodus Pt., Westfield, May, Je (Not); Olcott, Jl, Sep (Dt).

577 **B. postremum** Say. Monroe Co (M&W); Springville, Marilla (Dnd); Pike (NYS); Canisteo, Windsor, Schoharie, Je (Not).

582 **B. canadense** Hayw. On beach, L. Erie, Sodus Pt., Westfield, Ft. Hunter, Ft. Montgomery; very rare, May–Je (Not).

588 **B. tetracolum** Say. Ausable Chasm, Ausable Lakes, Keene Hgts., Mt. Redfield, 3000 ft., Jl–Sep (Not); St. Lawrence Co, *Houghton*; Gloversville, May, Aug (NYS); Monroe Co, Sodus Pt., May–Je (Not); Olcott, Mar, Jl, Sep (Dt); Buffalo (Z&R); Westfield, Canisteo, Nichols, May–Je (Not); Ithaca, May, *Dt* (Morr, Vdyk); Westchester, Jl (Lg); Yonkers; Bronxville, Mar–May (Woodr); West Farms; NYC (Dej); **SI,** Feb–Nov (Lg); **LI:** Canarsie, Ap (Not); Brooklyn, Mar–Jl, *Shoe* (Sf); Flatbush, May (Not); Manitou Beach, Je, *Zab* (Not); Jamaica, Rockaway Beach, May (Nic); Ft. Hamilton, Ap (Woodr).

588b **B. tetracolum** var. **nactum** Csy. Lower Hudson Val. (Csy).

591 **B. honestum** Say. Elizabethtown, Je (NYS); Ausable Forks, Upper Jay, Jay, Keene, Mooers, Wilmington, Stony Pt., Canisteo, Nichols, Whitehall, Ft. Hunter, Waterville, Windsor, Tarbel, Ft. Montgomery, May–Aug (Not); Ithaca, Ap, Jl, *Dt* (Vdyk); W. Hebron, Je–Jl (Lg); Taughannock Gorge, Je–Jl (Lg); Howasacra, Je (NYS).

592 **B. chalceum** Dej. Ausable Pt., Crown Pt., Upper Jay, Jay, Ausable Lakes, Keene Hgts., Keene, Mooers, Lowville, Waterville, Westfield, Nichols, Schoharie, Ft. Hunter, Whitehall, Ft. Montgomery, May–Sep (Not); Monroe Co, rare (M&W); Buffalo (Z&R); Ithaca, Mar, Aug, *Dt* (Vdyk); West Pt. (Robn).

600 **B. grandiceps** Hayw. Lowville, Cape Vincent, L. Ontario, Westfield, Canisteo, Nichols, Windsor, Ft. Hunter, Whitehall, May–Oct (Not); Ithaca, Aug, *Dt* (Vdyk).

— **B. rolandi** Fall. NY, type locality (Lg).

604 **B. semistriatum** Hald. Waterville, Windsor, Ft. Montgomery, May (Not); McLean Bogs, May (Dt); Ulster Co, *Nic* (Not); **LI:** Jamaica, *Nic* (Not).

612 **B. nigripes** Kby. Ausable Lakes, 2000 ft., Jl (Not).

648 **B. posticum** Hald. Wilmington, Mt. Wallface, Lowville, Ausable Pt., Ausable Lakes, Ausable Forks, Chaumont, Mountain View, Norwood, Cape Vincent, Crown Pt., Ausable Chasm, Keene Val., Mt. Marcy, Waterville, Mt. Skylight, Upper Jay, Jay, Keene Hgts., Keene, Mt. Redfield, Mooers, Sodus Pt., Mayville, Westfield, Red House, Oakfield, Canadice, Canisteo, Windsor, Nichols, Schoharie, Whitehall, Pine I., Tivoli, May–Oct (Not); Ithaca, Jl, *Dt* (Vdyk); Callicoon, Jl (Lg); **LI:** Rosedale, Canarsie, Ap–May (Not); Coney I., Rockaway, Je, Jl (Schaupp).

651 **B. patruele** Dej. Crown Pt., Ausable Forks, Upper Jay, Jay, Waterville, Lowville, Sylvan Beach, N. Brookfield, Sodus Pt., Mayville, Red House, Westfield, Canisteo, Nichols, Windsor, Schoharie, Ft. Hunter, Orangeburg, May–Aug (Not); Buffalo (Z&R); Batavia, *Ds*; E. Aurora (Dnd); White Plains, *Sq* (Frost).

655 **B. intermedium** Kby. Oneida L., Aug (Drk); Olcott, May–Jl (Dt); Buffalo (L&B); E. Aurora (Dnd); Ithaca, Jl, McLean, Aug, *Dt* (Vdyk); **LI:** Coney I., Rockaway, Je–Jl (Schaupp).

657 **B. marcidum** Csy. Lower Hudson Val. (Csy).

659 **B. versutum** Lec. Wallface Mt., Indian Pass, 2200 ft., Waterville, Nichols, Ft. Hunter, May–Jl (Not).

660 **B. variegatum** Say. Syracuse, Ap–May (H); Monroe Co (M&W); Red House, on Allegheny R., Nichols, Windsor, Orangeburg, May–Je (Not); Ithaca, Jl, *Dt* (Vdyk); West Pt. (Robn); **SI,** Mar–Sep (L&D).

679 **B. arcuatum** Lec. Indian Pass, 2200 ft., Wallface Mt., Waterville, Jl (Not); Monroe Co (M&W).

680 **B. graciliforme** Hayw. Axton, Je, *M&H*; Adirondacks, *Houghton*; Ausable Pt., Chaumont, Lowville, Waterville, Sodus Pt., Oakfield, Canadice. Whitehall, Orangeburg (Not); E. Aurora, Springville (Dnd); Olcott, Ap–Je (Dt); Ithaca, Feb (Lg, Dt); Tivoli; Mosholu (Not); **SI,** Je–Sep (Not); **LI:** Ap, *Hamilton* (Woodr).

— **B. lengi** Not. NY, type locality (Lg).

686 **B. cordatum** Lec. Monroe Co, rare (M&W); **SI,** *Nic* (Not).

694 **B. contractum** Say. Westchester, Mar (Lg); Canarsie, May (Not); West Farms; Van Cort. Pk., *Nic*; **SI:** Oakwood, in salt meadow, Sep, *Ds*; Watchogue (Lg); **LI:** Rockaway Beach, May–Sep, *Shoe* (Sf); Rockaway, Babylon, Je, *Bradford*; Bellport, Je–Aug, *Nic*; Jamaica, May, *Nic*; Far Rockaway, Ap–May (Woodr); Nissequogue R., Ap (Not); Center I., May, *Ds* (Not).

— **B. proximum** Not. NY, type locality.

695 **B. constrictum** Lec. **SI:** Oakwood, Mar, *Nic*; **LI:** Coney I., Rockaway, Je–Jl (Schaupp); Rockaway Beach, May, *Shoe, Nic* (Sf); Bellport, Jl (Nic); Wading R., May, *Nic*; Far Rockaway, May, Jamaica Bay, Ap (Woodr).

705 **B. affine** Say. Canadice, Oakfield, Westfield, Red House, Tivoli, Canisteo, May–Je (Not); Oneida L., Aug (Drk); Catskills, Ulster Co, *Nic*; Orange Co, Ap, *Faure* (Morr); Bronxville (Woodr); Mosholu; Van Cort. Pk.; **SI:** *Ds* (Not): seashore and south shore; **LI:** Brooklyn, May, Oct, *Shoe* (Sf); Jamaica, *Nic*; Rockaway, May (Woodr); Rosedale, Wyandanch, Ap–Oct (Not).

713 **B. decipiens** Dej. Wallface Mt.; Indian Pass; Ausable Pt.; Mountain View; Norwood; Cape Vincent; Keene Val.; Ausable Forks; Mt. Marcy, 5000 ft.; Moss Pond; Upper Jay; Keene; Chapel Pond; Mt. Redfield; Mt. Colden; Mt. Skylight; Mooers; Windsor; Schoharie; Lowville; Waterville; Sylvan Beach; Sodus Pt.; Oakfield; Westfield; Mayville; Nichols; Ft. Hunter; Whitehall; Tivoli; Orangeburg; May–Sep; (all Not).

714 **B. rotundiceps** Csy. **LI,** Shoe (Csy).

723 **B. versicolor** Lec. L. Tear, Ausable Pt., Mountain View, Crown Pt., Norwood, Cape Vincent, Keene Val., Ausable Forks, Mt. Marcy, 5000 ft., Moss Pond, Keene Hgts., Upper Jay, Jay, Chapel Pond, Ausable Lakes, Mt. Redfield, Mt. Colden, Mt. Skylight, Cliff Mt., Mooers, Mt. Whiteface, Lowville, Waterville, Sodus Pt., Oakfield, Red House, Westfield, Windsor, Tarbel, Ft. Hunter, Stony Pt., Whitehall, Rensselaerville,

May–Sep (Not); Oneida L., May–Aug (H); western NY, common on mud flats (Dnd); Olcott, Ap–Jl, Sep, Ithaca, May, Aug, McLean Bogs, May, Aug (Dt); Durlandville, May, *FrostSW* (Dt); White Plains, Jl, *Sq* (Frost); **SI**, south shore, May–Sep (Not).

725 **B. muscicola** Hayw. Cape Vincent, Waterville, abundant in cedar swamp, Je–Sep (Not); Johnstown, Gloversville, Mar–Dec (NYS); Montour Falls, Je (H); Olcott, Ap, Jl (Dt); Ithaca, Nov, *Dt* (Vdyk).

— **B. semicinctum** Not. Mooers, Orangeburg, Ap–Sep (Not).

— **B. quadratulum** Not. Mt. Redfield, 4200 ft., Jl (Not). (*B. proximum* is probably synonymous.)

730 **B. oberthuri** Hayw. Crown Pt., Mountain View, Upper Jay, Windsor, Schoharie, Sylvan Beach, Red House, Canisteo, Nichols, Ft. Hunter, Whitehall, May–Oct (Not); Marilla (Dnd).

737 **B. quadrimaculatum** L. Castile, *Brad* (Flet); generally distributed and common throughout the State.

744 **B. pedicellatum** Lec. West Pt. (Robn); Bronx Pk., Ap, *Nic* (Not); Bronxville, Ap (Woodr); **SI:** Bulls Head, Ap (Woodr).

747 **B. mutatum** G. & H. Mt. Whiteface, Aug, *Dt* (Vdyk); Keene Val., Moss Pond, Chapel Pond, Mt. Colden, Mt. Marcy, 5300 ft., May–Jl (Not); St. Lawrence Co, *Houghton*.

754 **B. sulcatum** Lec. Keene Val., Westfield, May–Jl (Not); Monroe Co (M&W); McLean Bogs, May (Dt).

759 **B. frontale** Lec. Ausable Chasm, Lowville, Waterville, Utica, Oakfield, Westfield, Red House, Nichols, Whitehall, Sodus Pt., Tivoli, Orangeburg, Clove Val., May–Oct (Not); Batavia, Je (Lg); Monroe Co (M&W); Olcott, May, Jl (Dt); Buffalo (Z&R); Ithaca, Nov, *Dt* (Vdyk); Albany, Ap; West Pt., Je, *Ds* (Not); Mosholu; Van Cort. Pk., May, Oct, *Nic*; **LI:** Brooklyn, May, *Shoe* (Sf); Greenport, Aug, *Ds* (Not).

772 **B. cautum** Lec. Summit of Mt. Skylight, 4900 ft., Jl (Not); Genesee Co, Je (Lg).

776 **B. anguliferum** Lec. Keene Val., Cape Vincent, Mt. Skylight, Waterville, very abundant under leaves in cedar swamp, McLean, May–Sep (Not); Westport, Aug; West Pt. (Robn); **LI:** Flatbush, Jl, *Zab* (Not).

B. kuprianovi Mann. Buffalo (Z&R). The type locality is doubtfully N. Am. (Lg).

AMERIZUS Chaudoir

778 **A. oblongulus** Mann. Mt. Whiteface, Aug, *Dt* (Vdyk); Mt. Hopkins, Mt. Skylight, Mt. Wallface, Mt. Marcy, Norwood, very unusual, taken under stones, shore Raquette R., Mt. Redfield, Mt. Whiteface, May–Sep (Not); Westfield (Not); N. Elba, Oct (Lg); Monroe Co, rare (M&W); NYC, *Palm* (L&B).

PERICOMPSUS LeConte

792 **P. ephippiatus** Say. Monroe Co, not common (M&W); Nichols, abundant on Susquehanna R., May (Not); near Hudson R., *Sherm* (L&R); Hudson Falls, *Sherm,Jr* (Lg); **SI** (L&D).

TACHYURA Motschulsky

805 **T. incurva** Say. Keene Val., Norwood, Ausable Forks, Upper Jay, Keene, Ausable Lakes, Mt. Redfield, Mt. Colden, Mt. Skylight, Cliff Mt., Mooers, Sodus Pt., Westfield, Egleston's Glen, L. Keuka, Waterville, Windsor, Schoharie, Tivoli, Ft. Hunter, W. Hebron, Van Cort. Pk., May–Sep (Not); Newport, Gloversville, Ap–Nov (NYS); Olcott, Feb–Oct (Dt); Buffalo (Z&R); Batavia, Je; E. Aurora (Dnd); Taughannock (Lg, Vdyk); Ithaca, May–Jl (div.); McLean Bogs, Jl–Aug, Caroline, Ap, Inlet Val., May–Jl, Coy Glen, May, *Dt* (Vdyk); Catskills, *Nic*; West Pt. (Robn); **SI:** seashore, May–Sep, Clove Val., Mar (Not); **LI:** Flatbush, Ap (Not); Jamaica, Brooklyn, *Nic* (Not); Amagansett, Sep, *Ds* (Not); E. New York, May (Not); Wyandanch, Ap, *Ds* (Not).

811 **T. granaria** Dej. Keene Val., Westfield, May–Aug, Keene Hgts., Moss Pond, Mt. Colden, Mt. Skylight, Mt. Marcy, Je–Aug (Not); Monroe Co (M&W); Catskill, Ap, *Ang* (Not); Catskills, *Nic* (Not); Westchester, Feb (Lg); Bronx, NYC; Bronxville, Mar–Ap (Woodr); **SI,** Mar (Lg); **LI:** Brooklyn, Ap–May, *Shoe*; Jamaica, *Nic* (Not).

813 **T. laetifica** Csy. NYC, *Julich* (Csy).

819 **T. xanthopus** Dej. Esopus, Peekskill, Ap (Vdyk); Tivoli, Van Cort. Pk., Mar (Not); **SI,** Jl (Lg).

820 **T. levipes** Csy. **LI:** Bellport, Je, *Nic* (Not).

825 **T. capax** Lec. West Pt. (Robn).

829 **T. tripunctata** Say. Waterville, Sodus Pt., Westfield, Red House, Ft. Hunter, Schoharie, Whitehall, Windsor, Tivoli, Ft. Montgomery, May–Oct (Not); Taughannock Gorge, May–Jl, *Dt*; Ithaca, May (Vdyk); Tarrytown, May, *Bradford*; **SI,** Nov (Lg).

830 **T. vivax** Lec. Ausable Forks, Jay, Waterville, Westfield, Nichols, Schoharie, Whitehall, Tivoli, May–Oct (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Je, *Hamilton* (Vdyk); Taughannock Gorge, May–Aug, *Dt*, *Hamilton* (Vdyk); Inlet Val., May, Jl, McLean Bogs, Aug, *Dt* (Vdyk); Coy Glen, May (Morr).

832 **T. serva** Csy. Bluff Pt. (Csy).

834 **T. ferrugineus** Dej. Peekskill, Mar (Vdyk); Greenwood L., May (Not); Riverdale, Je (Woodr); **SI,** Ap, *Shoe*.

835 **T. frontalis** Hayw. Canisteo, Je (Not); Peekskill, Je (Vdyk); **LI:** Jamaica (Lg); Rockaway Beach, May, *Nic* (Lg).

TACHYS Stephens

841 **T. cuneatus** Csy. NYC (Csy).

849 **T. proximus** Say. Monroe Co (M&W); Buffalo (Z&R); Olcott, Mar (Dt); Oakfield, Westfield, May–Je (Not); Ithaca, May–Je, McLean Bogs, Jl–Aug (Vdyk); Sandy Hill, Aug (Vdyk); Peekskill, May, *Dt* (Vdyk); **SI:** seashore, Je, *Ds* (Not).

— **T. rectangulus** Not. Sodus Pt., Je, Tivoli, May, Je (Not).

851 **T. scitulus** Lec. Manlius, May (Vdyk); Monroe Co (M&W); Buffalo (Z&R); Westfield, Canisteo, Windsor, Ft. Hunter, Schoharie, May–Je (Not); Inlet Val., Jl, Sep, *Dt*; Peekskill, *Dt* (Vdyk); Catskill, Ap, *Ang* (Not); West Pt. (Robn); Bronx Pk.; **SI,** May–Je (Lg); **LI:** Brooklyn, Ap, May, *Shoe* (Sf).

854 **T. temporalis** Csy. NYC (Csy).

856 **T. obliquus** Csy. **LI:** Willetts Pt. (Csy).

857 **T. coruscus** Lec. Waterville, Sylvan Beach, Sodus Pt., Windsor, Schoharie, May–Je (Not); Peekskill, May (Vdyk); **SI,** Ap, *Shoe* (Sf); **LI:** Canarsie, Rockaway Beach, E. New York, May (Not).

T. reflexicollis Mots. Vic. NYC (Motschulsky).

883 **T. laevus** Say. Manlius, Ap, *Comst* (Vdyk); Newport, Ap (NYS); Ausable Chasm, Westfield, Ft. Hunter, Windsor, Schoharie, Whitehall, Je–Oct (Not); Monroe Co (M&W); Olcott, Ap (Dt); Buffalo (Z&R); McLean Bogs, Aug, *Dt* (Vdyk); Ithaca, Ap (div.); Six Mile Cr., Ap (Morr); Peekskill (Vdyk); Van Cort. Pk., *Nic* (Not); **SI:** *Shoe* (Sf); Arrochar, Je–Oct (Not); **LI:** Brooklyn, Bronx Pk., Ap, *Shoe* (Sf).

TACHYTA Kirby

890 **T. nana** Gyll. Cranberry L., Jl (Hatch); Cortland Co (Dnd).

892 **T. inornata** Say. Axton, *M&H*; St. Lawrence Co, *Houghton*; N. Elba; Keene Val., Wallface, Mt. Skylight, Red House, Westfield, W. Hebron, Sloatsburg, Catskills, Big Ind. Val., Van Cort. Pk., Feb–Jl (Not); Monroe Co (M&W); Olcott, Ap (Dt); Syracuse, Ap (H); Buffalo (Z&R); Pike, Ap (NYS); McLean, Ap (Morr); Ithaca, Aug, *Hamilton* (Vdyk); Fall Cr., Renwick, Freeville, Ap–Je, *Dt* (Vdyk); Shokan (Lg); Karner, Mar (NYS); Peekskill (Vdyk); **SI:** Clove Val., Feb–Jl (Not); **LI:** Flatbush, Sep–Oct, *Zab* (Not); Jamaica, Bellport, Jl–Aug, *Nic* (Not); E. Hampton, Jl (Woodr); Brooklyn, May, *Shoe* (Sf).

895 **T. debilicollis** Csy. Ausable Pt.; Mountain View; Keene Val.; Red House; Westfield; Sloatsburg; **LI:** Yaphank; Ap–Sep; (all Not).

TACHYMENIS Motschulsky

898 **T. flavicauda** Say. Keene Val., Ausable Pt., Sodus Pt., Oakfield, Je–Sep (Not); Olcott, Aug, Oct (Dt); Windom, Oct, *Knapp* (Vdyk); Westfield; Red House, Schoharie, Ft. Hunter, Je (Not); Syracuse, Ap–May (H); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Ap, Aug, *M&H* (Vdyk); McLean, Ap (Morr); Renwick, Mar–Ap, *Dt* (Vdyk); Croton L., Ap (Not); Peekskill (Vdyk); Nassau, May (NYS); Mosholu, Nov, *Ang* (Not); Tarrytown; Van Cort. Pk., Oct, *Nic* (Not); **SI:** Clove Val., May (Not); Arrochar, Ap (Woodr); **LI:** Brooklyn, Ap–May, *Shoe*; Flatbush, Ap–Oct, *Zab*; Jamaica, Ap–May, Bellport, Aug, *Nic*; Central Pk., Ap (Woodr); Yaphank, May (Not); Hauppauge, Ap (Not); Baldwin, Amagansett, Sep, *Ds* (Not); Orient, *Lath* (NYS). Common under bark of dead trees (L&D).

PATROBUS Dejean

901 **P. longicornis** Dej. Keene Val., Crown Pt., Jay, Mooers, Long L., Norwood, Waterville, Conesus, Conesus L., Westfield, Schoharie, May–Sep (Not); St. Lawrence Co, *Houghton*; Newport, May, Holiday (NYS); Monroe Co (M&W); Olcott, May, Jl, Oct (Dt); Buffalo (Z&R); western NY, common in damp places (Dnd); Pike (NYS); Batavia, Je, *Ds*; Ringwood, Inlet Val., Je, Jl, *Dt* (Vdyk); Ithaca, Ap–Sep, *Dt, Hamilton &Yuasa* (Vdyk); Windom, Oct, *Knapp* (Vdyk); Hebron (Lg); Catskills, *Nic* (Not); White Plains, Aug–Sep, *Sq* (SfNYS); Van Cort. Pk., *Nic* (Not); Bronx (Woodr); Bronx Pk. (Not); NYC,

May–Sep (Schaupp); **SI; LI:** Brooklyn, May–Je, *Shoe*; Jamaica, May, *Nic* (Not); Forest Lawn, Jl, *Zab* (Not); Bellport, Jl, Aug, *Nic*; E. New York, Je (Not).

902 **P. septentrionis** Dej. var. **tenuis** Lec. Mt. Marcy; Mt. Redfield; Moss Pond; Jl; (all Not).

PLATIDIUS Chaudoir

908 **P. rugicollis** Rand. Keene Val., Westfield, May–Aug (Not); Catskills, ex coll. Nic; Hemlock Mt., Je, *Woodr* (Not); Callicoon (Schaupp); NYC (Rand).

— **P. longipalpus** Not. Keene Hgts., Jl (Not), type.

TRECHUS Clairville

909 **T. borealis** Schaef. Whiteface Mt., Jl–Sep, *Bdy* (Lg&Vdyk); Cliff Mt., Mt. Redfield, Mt. Marcy, Jl–Oct (Not); Chapel Pond, Je, *Bish* (Dt); Olcott, Mar (Dt); Howland I. (Vdyk); Ulster Co, Jl, Sep, *Nic*; **LI:** North Beach (Sf).

910 **T. chalybeus** Dej. Mt. Whiteface, Mt. Marcy, Sep–Oct (Lg); Rochester (M&W); **LI:** Bellport, *Nic* (Sf).

T. hydropicus Horn. Catskill, Oct (Not).

MYAS Dejean

929 **M. coracinus** Say. Manlius (Vdyk); Rock City, Je, trapped in molasses jar (Not); Ithaca, May (Dt); Coy Glen, Jl, one under stone and another under log in deep woods, *Dt* (Vdyk); North Branch (Schaupp); **SI,** Je–Sep (L&B); Silver L., Sep (Sf); Montauk, Jl (Ang); Huntington, Je, *Schott* (Sf).

930 **M. foveatus** Lec. "NY" (Lec); Catskills, Aug, *HarrED* (Sf); **LI:** Wading R., *Eng* (Sf).

CYLINDROCHARIS Casey

933 **C. rostrata** Newn. Old Forge, Aug (Vdyk); Westfield (Not); Rock City, Caroline, Ringwood, Coy Glen, Je–Jl, *Dt* (Vdyk); Ithaca, Ap–Sep, *div.* (Vdyk).

935 **C. piceata** Csy. Saranac L., Keene Val., Upper Ausable L., Wilmington, Sodus Pt., Westfield, Rock City, Je–Sep (Not); Johnstown, Ap, Pike, Sep (NYS); Hebron; North Branch (Schaupp); **LI:** Jamaica, *Nic* (Not).

C. grandiceps Lec. "NY" (Lec).

PTEROSTICHUS Bonvouloir

P. rejectus Lec. Keene Val., Red House, Tivoli, Rensselaerville, May–Je (Not).

1006 **P. adoxus** Say. Keene Val., Norwood, Saranac L., Long L., Mt. Marcy, Wilmington, Lowville, White L., Sodus Pt., Westfield, Rock City, Rensselaerville, Hebron, Catskills, Catskill, Ramapo, Je–Sep (Not); Westport, Sep, *Nic*; St. Lawrence Co, *Houghton*; Rochester (M&W); Saranac Inn (NYS); Boston, Erie Co (Dnd); Buffalo (Z&R);

Ithaca, Je–Sep, *div* (Vdyk); Ringwood, Coy Glen, Windom, McLean Bogs, Cortland Co, McLean Bogs, Junius, Aug, Norton's, May–Aug, *Dt* (Vdyk); Peekskill (Vdyk); West Pt. (Robn); **SI:** North Branch (Schaupp); Clove Val., Jl–Aug, *Ds* (Not); **LI:** Flatbush, *Zab* (Not); Bellport, Jl–Aug, *Nic*; Yaphank, Je, Sep, *Ds* (Not).

GASTRELLARIUS Casey

1024 **G. honestus** Say. Keene Val., Upper Ausable L., Saranac L., N. Elba, Wilmington, Lowville, White L., Parkers, Waterville, Sodus Pt., Westfield, Canisteo, Windsor, Je–Oct (Not); Olcott, Mar, Je, Aug, Oct (Dt); Taughannock Gorge, Aug, *Hamilton* (Vdyk); Hebron; St. Lawrence Co, *Houghton*; Rochester (M&W); Buffalo (Z&R); E. Aurora, Allegheny R. (Dnd); Pike, Nov (NYS); Portageville, Je (Vdyk); Ithaca, McLean Bogs, Coy Glen, Caroline, Ap–Nov, *Dt* (Vdyk); Catskills, *Nic*; Big Ind. Val., Aug, *Pears* (Not); Haines Falls (Vdyk); North Branch (Schaupp); Slide Mt., Je–Jl, *Shoe*; Rensselaer, *Houghton* (NYS); **LI:** Jamaica, *Nic* (Not).

ANAFERONIA Casey

1030 **A. substriata** Lec. "NY", *Julich, Say* (div.).

CYCLOTRACHELUS Chaudoir

1045 **C. unicolor** Say. "NY" (Schaupp, L&B).

EUMOLOPS Casey

1056 **E. furtiva** Lec. Westfield, May (Not).

1058 **E. sodalis** Lec. Boston, Hamburg, Marilla (Dnd); Windom, Oct, *Knapp* (Vdyk).

EVARTHRUS LeConte

1067 **E. sigillatus** Say. Albany (Say).

MONOFERONIA Casey

1077 **M. osculans** Csy. (*diligendus* Lec. nec Chd.). Keene Val., Upper Ausable, Parkers, Saranac L., Ausable Lakes, Canisteo, May–Sep (Not); Manlius, May, *SmHH* (Vdyk); Rochester (M&W); Ithaca, McLean Bogs, Ringwood, Caroline, Ap–Jl, *Dt* (Vdyk); Catskills, Sep, *Nic*; Big Ind. Val., Jl, *Pears* (Not); West Pt. (Robn).

EUFERONIA Casey

1085 **E. relicta** Newn. Mt. Marcy (NYS); Ausable, Westfield, May–Je (Not); Ithaca, Coy Glen, Ringwood, Ap–Sep, *Dt* (Vdyk); Ramapo Mts. (AM).

1088 **E. vapida** Csy. Adirondack Mts., *Kemp* (Csy).

1089 **E. stygica** Say. Crown Pt., Ausable Chasm, Waterville, Ausable Forks, Jay, Batavia, Rock City, Windsor, Whitehall, Sodus Pt., May–Oct (Not); Rochester (M&W); Olcott, Feb, Je, Oct (Dt); western NY,

common in damp places (Dnd); Pike, Ap (Say); Buffalo (Z&R); Olean, Sep (Vdyk); Westfield, May (Not); Castile, *Brad* (Flet); Ithaca, Ap–Sep, *div.* (Vdyk); Honeoye Falls, May (Vdyk); McLean Bogs, Caroline, Ringwood, Ap–Jl (Vdyk); Albany, May (Say); E. Jewett, *Ds* (Not); Peekskill (Vdyk); West Pt. (Robn); Mosholu, Bronx, May; Forest Lawn, Huguenot, Jl, *Zab* (Not); Bronxville, Bronx, NYC, Ap–Jl (Woodr); Van Cort. Pk., Mar–Oct, *Nic* (Not); **SI** (L&D); **LI:** Babylon, Je, Jl, *Bradford*; L. George, Aug, *Zab*; Jamaica, *Nic* (Not).

1093 **E. coracina** Newm. Essex Co, *Dt* (Vdyk); St. Lawrence Co, *Houghton*; Keene Val., Upper Ausable, Ausable Chasm, Ausable Forks, Mountain View, Mt. Marcy, N. Elba, Whiteface Mt., Port Kent, Parkers, Batavia, Rock City, Red House, Westfield, Forest Lawn, Tivoli, May–Sep (Not); Syracuse, Ap (H); Manlius, May, *SmHH* (Vdyk); Rochester (M&W); Olcott, May–Oct (Dt); Niagara (Lec); Buffalo, Ithaca, Ap–Sep, *div.* (Vdyk); Taughannock Gorge, Caroline, Coy Glen, Smith Hill, Ringwood, Junius, Ap–Aug, *Dt* (Vdyk); McLean, *Ds* (Not); Long Eddy, *Cy* (Vdyk); Haines Falls (Vdyk); Catskills, *Nic*; Big Ind. Val., Aug, *Pears*; Poughkeepsie (NYS); E. Jewett; West Pt. (Robn); **LI:** Yaphank, Je (Not); E. Patchogue, Wyandanch, Jl–Sep, *Ds* (Not).

1095 **E. adjuncta** Lec. "NY" (Lec).

1097 **E. lachrymosa** Newm. Newport, May (NYS); Syracuse, Ap (H); Manlius, Aug, *SmHH* (Vdyk); Olcott, Ap, Sep–Oct (Dt); Pike, May (Vdyk, NYS); E. Aurora (Dnd); Westfield, May (Not); Canisteo, Je (Not); Ithaca, Ap–Sep, *Hamilton, Dt* (Vdyk); McLean Bogs, Coy Glen, Caroline, Ap–Jl, *Dt* (Vdyk); Callicoon, Jl; West Pt. (Robn).

LYPEROPHERUS Motschulsky

1098 **L. punctatissimus** Rand. Mt. Whiteface, 4000 ft., Jl–Aug, *div.* (Vdyk); Mt. Marcy, 4500 ft., Wallface Mt., 3000 ft., Upper Ausable L., 2000 ft., Jl–Sep (Not).

REFONIA Casey

1100 **R. moesta** Say. Pike, Mar, *Yg* (NYS); Rock City, Je (Not); Ramapo, Suffern, Ap–Oct; NYC, Je–Sep (Schaupp); **SI** (L&D).

1101 **?R. superciliosa** Say. Ithaca, Ap (Morr).

ABACIDUS LeConte

1103 **A. sculptus** Lec. "NY" (Wickham).

GASTROSTICTA Casey

1110 **G. obscura** Say. "NY" (Lec).

CRYOBIUS Chaudoir

1137 **C. hudsonicus** Lec. Summit of Mt. Marcy, Whiteface Mt., Jl, Oct (Not).

1141 **C. arcticola** Chaud. Whiteface Mt., Sep (div.); Mt. Marcy, Mt. Hopkins, Mt. Skylight, Moss Pond, Green Mt., Jl–Oct (Not).

1145 **C. mandibularis** Kby. Mt. Marcy, Mt. Whiteface, Sep–Oct (Vdyk).

POECILUS Bonvouloir

1161 **P. chalcites** Say. Lower Ausable L., Ausable Lakes, Mt. Marcy, Sodus Pt., Westfield, Pulaski, May–Jl (Not); Rochester (M&W); Honeoye Falls, Je (Vdyk); Montour Falls, Ap (H); E. Aurora (Dnd); Buffalo (Z&R); Ithaca, Ap-Sep, *Hamilton* (Vdyk); W. Hebron; Orange Co, Ap, *Faure* (Morr); Peekskill (Vdyk); West Pt. (Robn); NYC, Mar–Jl (Woodr); Van Cort. Pk.; **SI**, May–Sep, *Ds*; **LI**: Farmingdale, Jl, *Morrow* (Vdyk); Rockaway Beach, May–Jl, *Shoe*, *Nic* (Not, Woodr); Babylon, *Bradford*; Flatbush, Jl, Coney I., Oct, *Zab*; Jamaica, Feb, *Nic* (Not).

1162 **P. lucublandus** Say. Castile, May, *Brad* (Flet); generally distributed and common throughout the State.

1163 **P. bicolor** Lec. "NY" (Lec).

1164 **P. convexicollis** Say. St. Lawrence Co, *Houghton*; Batavia, Je, *Ds*.

LOPHOGLOSSUS LeConte

1165 **L. gravis** Lec. **SI**: Watchogue, edge of salt meadow (L&D).

1167 **L. tartaricus** Say. **SI** (L&D).

1168 **L. strenuus** Lec. Buffalo (Z&R); **LI**: Ridgewood, May (Schaupp); Brooklyn (Fuchs); Astoria, Sep (Bt); Cypress Hills, May, *Zab*.

1169 **L. scrutator** Lec. Ausable Pt., Crown Pt., Cape Vincent, Oakfield, Aug–Sep (Not); Batavia, Je, *Ds*; Buffalo (Z&R); Ithaca, Aug, *Dt* (Vdyk); **LI**: Jamaica, Mar, Queens, *Nic*.

OMASEUS Ziegler

1174 **O. caudicalis** Say. Peru (Vdyk); Axton, Je, *M&H*; Newport, May (NYS); Keene Val., Ausable Pt., Lowville, Norwood, Crown Pt., Mooers, Port Kent, Ausable Chasm, Red House, Westfield, Canisteo, Nichols, Whitehall, Inwood, May–Sep (Not); Olcott, Feb, Sep (Dt); Pike, Oct (NYS); Batavia, Je, *Ds*; E. Aurora (Dnd); Ithaca, Ap–Sep, *Diven* (Vdyk); McLean Bogs, Aug, *Yuasa* (Vdyk); West Pt. (Robn); NYC, Ap (Vdyk).

1173 **O. ebeninus** Dej. Rochester (M&W); Ithaca, Ap–May (Morr).

1175 **O. luctuosus** Dej. Axton, Je (M&W); Plattsburg, Ausable Chasm, Upper Ausable, Unadilla, Norwood, Cape Vincent, Batavia, Canadice, Oakfield, Sodus Pt., Potter Swamp, W. Hebron, Whitehall, Schoharie, E. Jewett, Tivoli, Forest Lawn, Catskills, Windsor, Je–Sep (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); Olcott, Mar, May, Jl, Oct (Dt); Ithaca, South Hill, Turkey Hill, Taughannock Gorge, Renwick, McLean Bogs, Jl–Nov, *Dt* (Vdyk); Van Cort. Pk., Bronx, Mar, Ap (Woodr); **LI**: Rockaway Beach (Vdyk); Canarsie, Ap, May (Not); Brooklyn, Ap–Oct, *Ds*, *Shoe* (Not); Rockaway Beach, May, *Ds*, *Nic* (Not); Greenport, Aug, *Ds*; Rosedale, Ap (Not); Jamaica, Ap, Bellport, Ap–Je, *Nic* (Not); Jamaica Bay, Ap (Woodr).

1176 **O. corvinus** Dej. Generally distributed and common throughout the State, except at elevations above 500 ft. in northern NY, where it is absent.

—— **O. brevibasis** Csy. NY, type locality.

DYSIDIUS Chaudoir

1177 **D. purpuratus** Lec. Elmira, May, on ground in field (Diven).

1178 **D. mutus** Say. Castile, *Brad* (Flet); generally distributed and common throughout the State.

PSEUDARGUTOR Casey

1181 **P. erythropus** Dej. Axton, Je, *M&H*; St. Lawrence Co, *Houghton*; Keene Val., Whiteface Mt., N. Elba, Oakfield, Batavia, Windsor, Whitehall, Je–Oct (Not); Syracuse, Ap (H); Olcott, Ap, Sep (Dt); Buffalo (Z&R); Chaffee (Dnd); E. Aurora (Dnd); Ringwood, McLean Bogs, Taughannock, South Hill, May–Nov, *Dt* (Vdyk); Albany, May, *SmHH* (Vdyk); West Pt. (Robn); Dunwoodie, Ap (Woodr); **SI** (L&D); **LI:** Rockaway Beach, Ap–May (div.); Cypress Hills, May, *Zab* (Not); Coney I., May, *Nic*; Brooklyn, Jamaica, Mar–Ap, *Nic*; Jamaica Bay, Cedarhurst, Ap (Woodr); Yaphank, Je (Not); E. New York, Je (Not); Rosedale, Ap (Not).

MICROMASEUS Casey

1182 **M. patruelis** Dej. St. Lawrence Co, *Houghton*; Upper Ausable, Cape Vincent, Sodus Pt., Batavia, Oakfield, Whitehall, Tivoli, Orangeburg, Je–Sep (Not); Syracuse, Ap (H); Rochester (M&W); Olcott, Feb–Jl (Dt); Buffalo (Dnd); Pike, Ap (NYS); Howland I., Nov (Vdyk); Ithaca, Mar–Aug, *Hamilton* (Vdyk); Ringwood, McLean Bogs, Renwick, Mar–Nov, *Dt* (Vdyk); McLean, Ap (Morg); Peekskill (Vdyk); Ramapo, Je (Not); Bronxville, Je (Not); Van Cort. Pk., *Nic* (Not); **SI,** Feb–Nov; **LI:** Rockaway Beach, Ap–May, *Diven* (Not); Pinelawn, Mar, *Ds* (Not); Rosedale, Ap (Not); Jamaica, Brooklyn, Jamaica Bay, Mt. Hamilton, Ap (Woodr); Canarsie, Ap–May (Not); Brooklyn, May, *Ds* (Not).

1183 **M. femoralis** Kby. Rochester (M&W); Pike, Aug (NYS); Norton's, Oct, *SmHH* (Vdyk); Taughannock Gorge, May, *Dt* (Vdyk).

1186 **M. corrusculus** Lec. Rochester (M&W); **LI:** Wyandanch, Oct, E. New York, May, Rosedale, Ap (Not).

BOTHRIOPTERUS Chaudoir

1188 **B. pennsylvanicus** Lec. Keene Val., Mountain View, Waterville, Ausable Chasm, Parkers, Forest Lawn, Whitehall, Je–Oct (Not); Olcott, Ap, Oct (Dt); Grand I., Niagara R. (Dnd); Batavia, Je; Coy Glen, Turkey Hill, South Hill, Ithaca, McLean Bogs, Caroline, Ap–Nov, *Dt* (Vdyk); **LI:** Babylon, Je, *Bradford*; Manitou Beach, Je, *Zab* (Not).

1190 **B. oblongonotatus** Say. Hebron (Not).

1192 **B. adstrictus** Esch. St Lawrence Co, *Houghton*; Buffalo (Z&R).

1194 **B. luczoti** Dej. Wilmington, Aug, *Dt* (Vdyk); Mt. Whiteface, 2000 ft., Aug–Sep (div.); St. Lawrence Co, *Houghton*; Ilion (NYS); Buffalo (Z&R); Keene Val., Upper Ausable L., Mountain View, N. Elba, Saranac L., Mt. Marcy, Long L., May–Oct (Not).

LOXANDRUS LeConte

1214 **L. erraticus** Dej. **SI,** Feb, *Lg*, a single specimen.

CURTONOTUS Stephens

1251 **C. brunnipennis** Dej. NY, Edw (AM).

1258 **C. elongatus** Lec. NY, Edw (AM).

1259 **C. pennsylvanicus** Hayw. Port Kent, Cape Vincent, Sep (Not); Olcott, Sep (Dt); Ithaca, Sep, *Lg*; West Pt. (Robn); Van Cort. Pk. (Woodr); **SI:** Mar, *Ds*; Tottenville, Sep, *Ds* (Not); **LI:** Rockaway Beach, Sep, *Ds, Nic* (Not); Brooklyn, Je–Aug, *Shoe*.

STEREOCERUS Kirby

1260 **S. haematopus** Dej. "NY" (AM).

LEIRONOTUS Ganglbauer

1261 **L. arenarius** Lec. Keene Val., Lower Ausable L., Indian Pass, Wallface Mt., L. Tear, Westfield, Je–Jl (Not); Buffalo (Z&R).

LEIOCNEMIS Zimmermann

1262 **L. avida** Say. Axton, Je, M&H; Lower Ausable L., Sodus Pt., Nichols, May–Aug (Not); Rochester (M&W); Olcott, Ap (Dt); E. Aurora (Dnd); Buffalo (Z&R); Olean, Sep (VdykCU); Ithaca, Mar (Vdyk); W. Hebron, Je, *Lg*; Mosholu (Not–AM); Bronx, Ap–Nov (Woodr); NYC, *Ds* (Not); **SI,** Je, *Ds* (Not); **LI:** Rockaway Beach (AM); Ravenswood (AM); Jamaica, May (Not); Bellport, Aug (Not).

BRADYTUS Stephens

1265 **B. exaratus** Dej. Rochester (M&W); Red House, Ithaca, Mar–Je (Not); Mosholu (AM); Dunwoodie, Ap, Bronxville, Je (Woodr); Van Cort. Pk., Oct–Nov (Not); **SI,** Sep, *Lg*; **LI:** Brooklyn, Je–Sep, *Shoe*; Ravenswood (AM); Rockaway (AM); Jamaica, May (Not); Port Washington, Oct (Not); Rockaway Beach, Aug–Sep (Woodr); Half Way Hollow Hills, Selden, Jl–Aug, *Ds* (Not); Orient, Jl, *Lath* (Not).

1267 **B. apricarius** Payk. Adirondack Mts. (Rehn&Hebard); Axton, Je (M&H); Crown Pt., N. Elba, Keene Val., Batavia, E. Jewett (Not); Olcott, Je–Jl (Dt); Ithaca, Je–Jl, Sep, *Dt*, Hebron, W. Hebron, Je (Lg); **SI,** May–Aug (Not); **LI:** Brooklyn, Oct (Not–AM); Woodside, *Ds*; Orient, Jl–Sep, *Lath* (Not).

1271 **B. schwarzi** Hayw. Buffalo, Boston (Dnd); **LI:** Babylon, Jl (AM).

1272 **B. latior** Kby. Keene Val., Mountain View, Norwood, Je–Sep (Not); Olcott, Oct (Dt); Batavia, Je, *Lg*; E. Aurora (Dnd); Castile, Apr, *Brad* (Flet); Ithaca, Je (Dt); Albany, Aug (NYS); Catskills (Not).

PERCOSIA Zimmermann

1281 **P. obesa** Say. Keene Val., Mountain View, Norwood, Ausable Lakes, Long L., Waterville, Schoharie, Whitehall, Debruce, Je–Sep (Not); Rochester (M&W); Olcott, May (Dt); Buffalo (Z&R); E. Aurora (Dnd); Genesee Co, Je, *Ds*; Batavia; Orleans Co, Je (Ds); Sullivan Co (Ds); Hebron (Lg); NYC, May–Nov (Schaupp); **SI** (Not); **LI:** Rockaway Beach, Je (NYS).

1284 **P. ventricosa** Csy. **LI** (Csy).

CELIA Zimmermann

1285 **C. patruelis** Dej. Mt. Whiteface (Not); St. Lawrence (Houghton); Erie Co (Dnd); NYC (Schaupp); **SI:** Watchogue, Ap–Jl, *Ds* (Not); **LI:** Jamaica, Rockaway Beach, May, *Nic* (Not).

1289 **C. erratica** Sturm. Keene Val.; Lower Ausable; Whiteface Mt.; Wilmington; Mt. Marcy; Ap–Sep; (all Not).

1302 **C. laxicollis** Csy. Keene Val., Je (Not); Johnstown, Ap (NYS); Van Cort. Pk., *Nic* (Not); **SI,** Nov (Lg); **LI:** Sheepshead Bay (Csy); Rockaway Beach (Csy, Lg–AM); Babylon, Je (AM); Jamaica, Wading R., May, *Nic* (Not); Orient, Aug, *Ds* (Not).

1308 **C. mimica** Csy. Ausable Pt., Sep (Not).

1309 **C. remotestriata** Dej. Buffalo, scarce (Dnd).

1318 **C. sodalis** Csy. **SI** (Csy).

1319 **C. chalcea** Dej. Ausable Pt., Sep (Not); Axton, Je (AM); Peekskill, Dec, *Lg* (AM); Westchester, Ap, *Lg*; Bronxville, Mar (Woodr); NYC, May–Nov (Schaupp); **SI,** Feb–Sep, *Lg* (Not); **LI:** Rockaway (AM); Jamaica, Bellport, Farmingdale (Not); Rockaway Beach, Baldwin, May–Je, *Ds* (Not).

1324 **C. schotti** Csy. **LI:** Jamaica, *Schott* (Csy).

1325 **C. sphaerops** Csy. **LI:** Wyandanch (Csy).

1334 **C. brunnea** Gyll. Mt. Whiteface (Not, Lg).

1348 **C. nupta** Csy. L. Champlain (Csy).

1350 **C. subaenea** Lec. Keene Val., Jl (Not); **SI,** Sep (Lg); **LI:** Rockaway Beach, May (Woodr).

1354 **C. lyncea** Csy. **LI:** Sheepshead Bay (Csy).

1358 **C. liquida** Csy. **LI** (Csy).

1360 **C. shoemakeri** Csy. **LI,** *Shoe* (Csy).

1361 **C. pallida** Csy. **LI:** Willetts Pt. (Csy).

1362 **C. politissima** Csy. **LI** (Csy).

1367 **C. nigripennis** Csy. **LI:** Willetts Pt. (Csy).

1372 **C. musculus** Say. N. Elba (Not); Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); Pike (NYS); L. George, Sep, *Zab* (AM); **SI,** Sep (Lg); **LI:** Coney I., May–Sep, *Zab* (SchauppAM); Rockaway Beach, May–Sep (div.); Jamaica, *Nic*; Wading R., Jamaica, May–Sep (Not).

1375 **C. paulula** Csy. **LI:** Wading R. (Csy).

1378 **C. rubrica** Hald. Keene Val., Aug–Sep (Not); N. Elba (Not); Rochester (M&W); L. George, Aug, *Zab* (Not); Nyack, Van Cort. Pk., Sep, *Zab* (Not); **SI** (Lg); **LI:** Rockaway Beach, May (div.); Brooklyn, Je, *Shoe*; Long Beach (AM); Babylon, Je (AM); Flatbush, *Zab* (Not); Bellport, Aug, *Nic* (Not); Maspeth, Sep, Baldwin, May, Yaphank, May, *Ds* (Not).

AMARA Bonvouloir

1384 **A. arcuata** Csy. **LI:** Willetts Pt. (Csy).

1385 **A. impuncticollis** Say. Castile, *Brad* (Flet); generally distributed and common throughout the State.

1389 **A. fallax** Lec. Keene Val., N. Elba, Mt. Whiteface, Mt. Marcy, Sodus Pt., Genesee Co, Westfield, Bronx Pk., Ap–Jl (Not); Rochester Jct., Honeoye Falls, Je, *Leon* (Vdyk); Rochester (M&W); Buffalo (Z&R); **SI,** Ap–Jl (Not); **LI:** Brooklyn, Rockaway Beach, May–Sep, *Shoe*; Tarrytown (AM); Jamaica, Bellport, Forest Pk., Aug, *Nic* (Not).

1398 **A. humilis** Csy. Keene Val., Canisteo, Nichols, May–Je (Not); **LI:** Rockaway Beach, May, *Ds*, *Nic* (Not); Jamaica, Forest Pk., *Nic* (Not); Wading R., May (Not).

1400 **A. cupreolata** Putz. Keene Val., Mt. Haystack, Mt. Marcy, Wilmington, Ap–Aug (Not); Syracuse, Ap–May (H); E. Aurora (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap–Jl (VdykCU); White Plains, May (Sf); Bronx, Ap, Van Cort. Pk., May (Woodr); **SI:** Clove Val., May, Aug, *Lg*; **LI:** Brooklyn (Vdyk); Rockaway Beach, May, *Nic* (Not); Flatbush, May, *Zab* (AM).

1402 **A. marquettensis** Csy. Ithaca, Ap, *Kngt* (Not).

1403 **A. aeneopolita** Csy. Mt. Marcy, Keene Val., Mt. Whiteface, Windsor, May–Jl (Not).

1415 **A. polita** Lec. Mt. Reserve, Keene Val., Ausable Forks, Pulaski, Sodus Pt., Je–Aug (Not); Rochester (M&W); Olcott, Mar–Oct (Dt); western NY, common (Dnd); Ithaca, Ap (Dt); West Pt. (Robn); Bronxville, NYC, Van Cort. Pk., Ap–May (Woodr).

1423 **A. crassispina** Lec. Turkey Hill, Ithaca, Nov, *Dt* (Vdyk); **SI,** Mar (Woodr).

1424 **A. parviceps** Hayw. West Pt. (Robn).

1429 **A. basillaris** Say. Bronx, Bronxville, Ap (Woodr); **LI:** Brooklyn, Rockaway Beach, Sep, *Shoe*.

—— **A. edax** Not. Windsor (Not).

A. teres Not. Westfield, May (Not).

TRIAENA LeConte

1430 **T. pallipes** Kby. Keene Val., *Wat*; Windsor, Je–Jl (Not); St. Lawrence Co, *Houghton*; northern NY (Lec); West Pt. (Robn).

—— **T. lawrenceana** Csy. NY, type locality.

—— **T. parallela** Csy. NY, type locality.

1433 **T. angustata** Say. Generally distributed and common throughout the State.

REMBUS Latreille

1441 **R. major** Lec. Buffalo (Z&R); Ithaca, Jl (Vdyk).

1442 **R. laticollis** Lec. Norwood, Sodus Pt., Westfield, May–Sep (Not); Syracuse (Lint); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Lg); E. Aurora (Dnd); Montour Falls, Ap (H); McLean, Jl–Aug, Ithaca, Aug, *Dt* (Vdyk); **SI** (Lg); **LI:** Rockaway Beach, Brooklyn, Ap, Je, *Shoe*.

1442c **R. laticollis** var. **assimilis** Lec. "NY" (Lint).

1443 **R. impressicollis** Dej. Waterville, Je; Sodus Pt., May, Je (Not); Genesee Co, Je, *Ds*; Batavia, Je (Lg); Taughannock, Je, and Ithaca, Aug (Vdyk); Whitehall, Oct (Not); **SI,** May (L&D).

1444 **R. obtusa** Lec. Keene Val., Sep (Not); Syracuse, May (H); Sturgeon Pt., on L. Erie (Dnd); Ithaca, Aug (Vdyk).

1446 **R. alternans** Csy. Cape Vincent, Waterville, Sodus Pt., May–Sep (Not); Genesee Co, May (Lg); McLean Bogs, Ithaca, Jl (Vdyk).

—— **R. brevicollis** Csy. Ogdensburg (Csy).

—— **R. foveata** Csy. NY, type locality.

DICAELUS Bonelli

1450 **D. dilatatus** Say. Syracuse, May, Oct (H); Rochester (M&W); Buffalo (Z&R); Ithaca, Ap–Sep, *div.* (Vdyk); Fall Cr., Cascadilla Cr., Larch Meadows, Ap–May (Dt); Karner, May (NYS); Greenwood L., May (AM); Schoharie, Ft. Montgomery, May–Je (Not); Catskills, Je, *Nic* (NotNYS); Big Ind. Val., Aug (Not); Peekskill (VdykCU); North Branch (Schaupp); West Pt. (Robn).

1454 **D. purpuratus** Bon. "NY" (AM); **SI,** Aug, *L&D* (Not).

1463 **D. crenatus** Lec. Buffalo (Z&R).

1464 **D. ovalis** Lec. Buffalo (Z&R); McLean Bogs, Nov (Vdyk).

1465 **D. elongatus** Bon. Newport, Je (NYS); Erie Co, frequent in woods under cover (Dnd); Buffalo (Z&R); Ithaca, May–Sep, *div.* (Vdyk); McLean Bogs, Jl, *div.* (Vdyk); Cascadilla Cr., Ap–Mar (Dt); Freeville, Ringwood, Caroline, Ap–Jl (Vdyk); Schoharie, Whitehall, Je–Oct (Not); Peekskill (Vdyk); Catskills, Nov, *Nic* (Not, Lg); Hebron (Lg); Van Cort. Pk., Ap (Woodr); Ramapo, Rockland, Sep–Oct (Ds); **SI:** Clove Val., Mar–Aug (Lg); **LI:** Bellport, Jamaica, Je–Aug, *Nic* (Not); Bergen Beach, May, Je (Not AM); Woodhaven, Je, *Zab* (AM); Flatbush, May, *Zab* (AM); Brooklyn, May–Je, *Shoe*; Orient Pk., May, *Lath* (NYS); Yaphank, Je (Not); Oyster Bay, Aug (Ds); Selden, Half Way Hollow Hills, Orient, *Ds* (Not).

1466 **D. ambiguus** Laf. Streetroad, Je (NYS).

1467 **D. teter** Bon. Upper Jay, Aug (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); Olcott, Je, Aug (Dt); E. Aurora (Dnd); Buffalo (Z&R); Westfield, May (Not); Rock City, Je, *Ds* (Not); Ithaca, May–Aug, *Dt* (Vdyk); Caroline, Ap, *Dt* (Vdyk); Schoharie, Je (Not); Catskills, *Nic* (Not,Lg); Peekskill, Ap (Vdyk CU); Ramapo, Ap, *Ds*.

1468 **D. politus** Dej. Keene Val., Je (Not); Syracuse, Montour Falls, Ap (H); Rochester (M&W); E. Aurora, Allegany Pk. (Dnd); Westfield, May (Not); Ithaca, *div.* (Vdyk); Coy Glen, Larch Meadows, May (Dt); Ringwood, Jl, Taughannock, May, *Dt* (Vdyk); W. Hebron (Lg); Catskills, Sep, *Nic* (Not); West Pt. (Robn); Inwood, NYC, Ap (Woodr); **SI,** Ap; **LI:** Queens, Ap, Wyandanch, May, *Nic* (Not); Half Way Hollow Hills, May, *Ds* (Not).

BADISTER Clairville

B. gilvipes Csy. **LI** (Csy).

1470 **B. notatus** Hald. St. Lawrence Co, *Houghton*; Syracuse, Ap–May (H); Ithaca, Mar–Oct (Vdyk CU); Turkey Hill, Nov (Vdyk); Six Mile Cr., Ap (Not); Schoharie, Je (Not); Van Cort. Pk., Mar (Woodr); **SI,** May, Je (div.); **LI:** Brooklyn, Ap, May, *Shoe*; Forest Pk., Ap, *Nic* (Not).

1471 **B. pulchellus** Lec. Keene Val., Cape Vincent, Wilmington, Je–Sep (Not); Syracuse, Ap (H); Rochester (M&W); Batavia, Jl–Aug, *Kngt* (Not); E. Aurora (Dnd); Buffalo (Z&R); Ithaca, Je, *Snn* (Vdyk); McLean Bogs, Aug, *Hamilton* (Vdyk); West Pt. (Robn); Suffern (AM); Bronx, Dec, *Nic* (Not); **SI,** May (Lg).

1472 **B. bipustulatus** Fab. St. Lawrence Co (Houghton).

1476 **B. ferrugineus** Dej. Buffalo (Z&R). Known from Alaska and Calif.

1478 **B. flavipes** Lec. "NY" (Wickham).

1479 **B. micans** Lec. Ausable Pt., Cape Vincent, Waterville, Je–Sep (Not); Olcott, Oct (Dt); Ithaca, Ap, Jl, *SmHH* (Vdyk); Peekskill, Jl (Vdyk CU); NYC, Bronx, Ap–Je (Woodr); Van Cort. Pk., Mar (Woodr); **LI:** Jamaica Bay, Ap (Woodr).

1480 **B. laticeps** Blatch. Taughannock, May, *Dt* (Vdyk).

1481 **B. reflexus** Lec. Howland I. (VdykCU); McLean Bogs, Aug, *Dt* (Vdyk).

CALATHUS Bonelli

1482 **C. gregarius** Dej. Castile, Ap, *Brad* (Flet); generally distributed and common throughout the State.

1483 **C. ingratus** Dej. Wilmington, Aug, *Dt* (Vdyk); Mt. Whiteface, Jl–Sep, *div.* (Vdyk, Not); Parkers, Je (Not); Green Mt., Jl (Not).

1484 **C. opaculus** Lec. Syracuse, Ap (H,VdykCU); Forest Lawn, Jl (Not); McLean Bogs, Nov, *Dt* (Vdyk); Ithaca, Aug (Vdyk); Bronx, Ap (Woodr); **SI,** Mar (Lg); **LI:** Yaphank, Aug, *Nic* (Not); Shinnecock Hills, *Ds.*

PRISTODACTYLA Dejean

1488 **P. advena** Lec. Mt. Whiteface, trail, Aug, *Dt* (Vdyk, Not); Mt. Marcy, Mt. Redfield, Moss Pond, Mt. Redfield, Jl (Not).

1489 **P. impunctata** Say. Axton, Je, *M&H*; Wilmington, Aug, *Ds* (Vdyk); Keene Val., Ausable Forks, Mooers, W. Hebron, Parkers, Sodus Pt., Catskills, Ulster Co, Debruce, Je–Aug (Not); Olcott, Sep (Dt); L. Champlain (Sf); Hamilton Co, *Ds*; Crugers, Je (Not AM); Ithaca, Sep (VdykCU); McLean, Ap (Flet); Albany (NYS AM); North Branch (Schaupp); Peekskill (VdykCU); **SI:** Clove Val., Aug, *Ds* (Not); **LI:** Long Beach (Vdyk); Bellport, Jl, *Nic* (Not); Rockaway Beach, Wyandanch, Yaphank, Je–Oct, *Ds* (Not).

PLATYNUS Bonelli

1507 **P. hypolithos** Say. Gloversville, Je (NYS); Oneida Co, Sep, *Shoe*; Rochester (M&W); Olcott, Je–Jl, Sep–Oct (Dt); E. Aurora and Allegany Pk., common (Dnd); Batavia, Je, *Kngt* (Ds,Lg); Buffalo (Lg,Z&R); western NY (Lint); Chautauqua (VdykCU); Manlius, Aug, *SmHH* (Vdyk); Red House; Unadilla, Westfield, May (Not); Olean, Sep (VdykCU); Castile, *Brad* (Flet); Ithaca, Aug, Larch Meadows, Jl (Hamilton); McLean Bogs, Jl–Aug, *Dt* (Vdyk).

1508 **P. angustatus** Dej. John's Br., and Upper Ausable L., Aug–Sep, *Nic* (Not); Wilmington, Aug, *Dt* (Vdyk); Fourth L., Je (NYS); Haines Falls (VdykCU); Pike (VdykCU); western NY (Lint); Buffalo (Z&R); Olean, Sep (Vdyk); Chautauqua (Ds); Rock City, Jl, *Kngt*

(Not); Canisteo, Windsor (Not); Ithaca, May, Sep, *Hamilton, Dt* (Vdyk); McLean Bogs, Ringwood, Coy Glen, Je–Jl (Dt); Catskills (Lint); North Branch (Schaupp); L. George, Aug, *Zab* (AM); Peekskill (Vdyk CU); Oliverea, Je–Jl, *Shoe*; West Pt. (Robn); Ulster Co, Aug–Sep, *Nic* (Not); **SI** (L&D); **LI:** Jamaica, *Nic* (Not).

P. aesopus Csy. Adirondack Mts. (Csy).

1511 **P. stygicus** Lec. Keene Val.; Ausable Lakes; Mountain View; Mt. Marcy; Whiteface Mt.; Jl–Oct; (all Not).

1513 **P. decens** Say. Mt. Marcy, Whiteface Mt., N. Elba, Keene Val., Upper Ausable L., Mountain View, Waterville, Cattaraugus Co, Rock City, Windsor, Catskills, W. Hebron, Orangeburg, Whitehall, Ap–Oct (Not); Rochester (M&W); Olcott, Ap (Dt); Pike, Oct (NYS); Batavia, Sep, *Kngt* (Not); Renwick, Ap, Ithaca, Sep (Vdyk); Schenectady, Dec (Dt); Haines Falls (Vdyk CU); Bronx Pk. (AM); Palisades-on-Hudson, Ap, Van Cort. Pk. (Woodr, Not AM); Bronxville, Ap (Woodr); **SI,** Ap–Oct (Not); **LI:** Flatbush, Ap, Nov, *Zab* (Not); Parkville, (Not AM); Jamaica, Mar, Queens, Nov, *Nic* (Not); Hauppauge, Ap, *Nic* (Not); Wyandanch, Jl, Long Pond, Wading R., Je, *Ds* (Not).

1514 **P. sinuatus** Dej. Generally distributed and common throughout the State.

1516 **P. opaculus** Lec. Keene Val., Je (Not); NYC (Schaupp); Van Cort. Pk., May (Not AM); **LI:** Rockaway, May (Woodr).

1517 **P. tenuicollis** Lec. Manlius, May, *SmHH* (Vdyk); NYC (Lg).

1518 **P. cincticollis** Say. Keene Hgts., John's Br., Mooers, Lowville, Port Kent, Ausable Pt., Sodus Pt., Westfield, Schoharie, Ft. Montgomery, May–Sep (Not); Rochester (M&W); Pike, Je (NYS); Inlet Val., Ithaca, May (Not); Renwick, Ap, *Dt* (Vdyk); Canisteo, Je (Not); NYC (Not, Lg); **SI,** *Shoe, Ds* (AM); **LI:** Brooklyn, Rockaway Beach, Ap–Oct, *Shoe* (Not); Forest Pk., *Nic* (Not); Jamaica, Mar, *Nic* (Not); Far Rockaway, May (Woodr); Wading R., May, *Ds* (Not).

1519 **P. reflexus** Lec. Upper Ausable L., Mountain View, Cape Vincent, Keene Hgts., Mooers, Waterville, Ausable Pt., Lowville, Tivoli, Westfield, Catskills, Windsor, May–Sep (Not); Syracuse, Ap–May (H); Rochester (M&W); Montour Falls (H); Buffalo (Dnd); Ithaca, Renwick, May–Nov, *Dt* (Vdyk); Taughannock, Ap, *Snn* (Vdyk); McLean Bogs, Je, *Dt* (Vdyk); Egleston's Glen, Je, Peekskill, May (Vdyk CU); Albany, May (AM); L. George, Aug, *Zab* (Not); West Pt. (Robn); **SI,** Ap (Not, Lg); **LI:** Newtown Hgts., May (Not AM); Rockaway, Aug, Flatbush, Je, Oct, *Zab* (Not); Jamaica, *Nic* (Not); Far Rockaway, May (Woodr); Rockaway Beach, May–Je, Wading R., Aug, *Ds* (Not).

1520 **P. parmarginatus** Ham. Pike, Mar (NYS); **LI:** Orient, *Lath* (NYS).

1521 **P. brunneomarginatus** Mann. Buffalo (Z&R). A well-known Calif. sp. (Lg).

1522 **P. extensicollis** Say. Generally distributed and common throughout the State.

1522b **P. extensicollis** var. **viridis** Lec. Buffalo (Z&R).

—— **P. gaudens** Csy. (*Anchomenus*). L. Champlain (Csy).

1523 **P. decorus** Say. Crown Pt., Oakfield, Nichols, May–Aug (Not); L. Onondaga (Lint); Syracuse, Ap–May, Oct (H); Rochester (M&W); Olcott, Ap, Jl (Dt); Six Mile Cr., Ap (Not); McLean Bogs, Jl–Aug,

Hamilton, Dt (Vdyk); Inlet Val., Sep, *Dt* (Vdyk); Ithaca, Jl (Vdyk CU); Peekskill (Vdyk CU); West Pt. (Robn); White Plains, Aug (Sq); NYC, May (Woodr); **SI:** May (Woodr, Ds); New Brighton, Aug (Ds); **LI:** Rockaway Beach (Vdyk CU); Brooklyn, Ap, Jl, *Shoe* (AM); Cypress Hills, Aug (AM); Queens, Ap, Bellport, Jl, *Nic* (Not); E. New York, Je (Ds).

—— **P. decorus** ab. **syracusensis** Hatch (*Anchomenus*). Syracuse, Ap, Oct (H).

1529 **P. anchomenoides** Rand. Keene Val., Ausable Lakes, Waterville, Red House, Nichols, Canisteo, Windsor, Schoharie, May–Je (Not); Rochester (M&W); Niagara, Buffalo (Dnd); Ithaca, Je, *Hamilton* (Vdyk); Inlet Val., Jl, Renwick, Ap, *Dt* (Vdyk CU); NYC (Rand ANSP).

1537 **P. errans** Say. Manlius, Ap, *SmHH* (Vdyk).

1537a **P. errans** Say var. **subcordatus** Lec. Rochester (M&W).

1538 **P. moerens** Dej. St. Lawrence Co, *Houghton*; Oneida L., Aug (Drk); **LI** (Dej ANSP).

1539 **P. tenuis** Lec. N. Elba (Not,Lg); Ithaca, Aug (Vdyk CU); White Plains, May (Sq); **SI** (Not,Lg); **LI:** Rockaway Beach, Brooklyn, Ap–Nov, *Shoe*.

—— **P. militaris** Csy. West Pt., *Robn* (Csy).

1540 **P. collaris** Say. Buffalo (Z&R).

1541 **P. mutatus** G. & H. (*atratus* Lec.). St. Lawrence Co, *Houghton*; Keene Val., Upper Ausable L., Windsor, Chauncey, Sloatsburg, N. Elba, Tarbel, Mar–Je (Not); Syracuse, Ap (H); Rochester (M&W); Rock City, Je (Vdyk CU); McLean Bogs, Inlet Val., Ringwood, Jl–Oct, *Dt* (Vdyk); Ithaca, Jl–Aug (Vdyk CU); Catskills, *Nic* (Not); Bronxville, Mar (Woodr); **SI,** May (Lg); **LI:** Brooklyn, May–Sep, *Shoe*; Jamaica, Bellport, Wading R., Mar–Aug, *Nic* (Not); Jamaica Bay, Ap, Ft. Hamilton, Ap (Woodr).

1542 **P. melanarius** Dej. Generally distributed and common throughout the State.

1543 **P. propinquus** G. & H. Cape Vincent, Crown Pt., Mt. Marcy, Waterville, Batavia, May–Sep (Not); Howland I., Cayuga Co (Dt).

1546 **P. affinis** Kby. Peru, Jl, *M&E* (Vdyk); St. Lawrence Co, *Houghton*; Keene Val., Indian L., Norwood, Keene Hgts., Ausable Lakes, Mt. Skylight, Lowville, Ausable Pt., Batavia, Sodus Pt., Canadice, Westfield, Nichols, Tivoli, Whitehall, May–Oct (Not); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Montour Falls (H); McLean Bogs, Ringwood, Inlet Val., Ithaca, Keuka Pk., Mar–Oct, *Dt* (Vdyk); Nyack, *Zab* (Not AM); Bronxville, Mar–Ap, Bronx, Ap, Van Cort. Pk., Ap (Woodr); NYC, *Schaupp* (Lg); **LI:** Babylon, Je (AM).

1547 **P. carbo** Lec. Pine I., Sep (Not AM); **LI:** Newtown Hgts., Ap (Not AM).

1548 **P. corvus** Lec. Mt. Redfield, Jl (Not); Van Cort. Pk., Mar (AM); NYC (Schaupp); **LI:** Canarsie, Ap (Not); Jamaica (Lg); E. New York, May, *Nic* (Lg); Brooklyn, Ap–Sep, *Shoe* (AM).

1551 **P. metallescens** Lec. Mt. Marcy, Jl, Keene Val., May (Not); St. Lawrence Co, *Houghton*.

—— **P. fidele** Csy. Keene Val., Moss Pond, Parkers, May–Jl (Not).

1552 **P. deceptivus** Lec. Mt. Marcy, Mt. Redfield, Jl (Not).

1553 **P. cupripennis** Say. Castile, Ap, May, *Brad* (Flet); generally distributed and common throughout the State.

1555 **P. excavatus** Dej. Lowville, Keene Val., Waterville, Canadice, Oakfield, Sodus Pt., Canisteo, Sylvan Beach, Red House, Nichols, Tarbel, Ft. Hunter, Orangeburg, Van Cort. Pk., Ap–Je (Not); Rochester (M&W); Olcott, May, Jl (Dt); Ithaca, Jl–Aug, *Hamilton* (Vdyk); Butternut Cr., Je, *Dt* (Vdyk); McLean Bogs, May, Jl (Dt); Hudson Falls, Aug (Vdyk CU); West Pt. (Robn); Suffern (AM); NYC (Schaupp); **SI** (L&D); **LI:** Rockaway Beach, Brooklyn, May–Je, *Shoe*.

1556 **P. ferreus** Hald. Ithaca, Je, *Dt* (Vdyk CU); Tivoli, May (Not); Orangeburg, Ap (Not); Nyack, *Zab* (Not); Bronxville, Ap (Woodr); Peekskill, Ap (Vdyk CU); West Pt. (Robn); Mosholu, Sep, Bronx Pk., Van Cort. Pk. (AM); **SI:** Mar–Je, *Nic* (Not); Clove Val., Mar (Lg); **LI:** Brooklyn, May, Nov, *Shoe*; Flatbush, Ap (Not AM); Jamaica, May, *Nic* (Not); Forest Pk., May (Vdyk CU).

1557 **P. basalis** Lec. "NY" (Lint,Csy).

1558 **P. nutans** Say. Waterville, Je (Not); St. Lawrence Co, *Houghton*; Olcott, Ap, Je (Dt); Buffalo (Z&R); E. Aurora, Cortland Co (Dnd); Westfield, May (Not); Ithaca, Je, Ringwood, Jl, Turkey Hill, Je–Nov, *Dt* (Vdyk); West Pt. (Robn); NYC, Bronx, Bronxville, Mar–Jl (Woodr); **SI,** May (Lg); **LI:** Rockaway Beach, May, *Nic* (Not); Brooklyn, Ap, Far Rockaway, Ap–May (Woodr).

1561 ?**P. maculicollis** Dej. Buffalo (Z&R). Known from Kans. and Calif. (Lg).

1562 ?**P. variolatus** Lec. Buffalo (Z&R). Known from southern Calif. (Lg).

1566 **P. octopunctatus** Fab. Axton, Je (M&H); Mt. Skylight, Wallface Mt., Keene Val., Sylvan Beach, Nichols, May–Jl (Not); Newport, Je, Aug (NYS); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, Feb (Dt); Buffalo (Z&R); Pike, Je (NYS); E. Aurora (Dnd); Ithaca, Sep (Dt); McLean, Jl, *Dt* (Vdyk); Albany, Je, Nassau, Aug (NYS); White Plains (Sq); Nyack, *Zab* (Not); High Bridge (AM); Van Cort. Pk. (AM); Bronx, Ap (Woodr); Peekskill, Sep, NYC (Lg); **SI** (Lg); **LI:** Brooklyn, May, *Shoe* (AM); Jamaica, Ap, *Nic* (Not); Babylon, Jl (AM); Flatbush, Ap, *Zab* (AM); Bergen Beach, Ap–May (Not AM); Forest Lawn, Jl, *Zab* (Not); Rockaway Beach (div.).

1567 **P. placidus** Say. Peru, Jl, *M&E* (Vdyk); Ausable Pt., Port Kent, Sep (Not); Wilmington, Je (Ds); Syracuse, Ap–May (Vdyk,H); Rochester Jct., Je, *Leon* (Vdyk); Sodus Pt., May (Not); western NY, common (Dnd); Olcott, Mar, Jl, Oct (Dt); Batavia, May–Jl, *Kngt* (Not); Castile, *Brad* (Flet); Geneva, Nov (Vdyk CU); Cattaraugus Co, Jl (Ds); Ithaca, Coy Glen, Renwick, Taughannock Gorge, Ap–Sep, *Dt* (Vdyk); Whitehall, Oct (Not); Peekskill (Vdyk CU); West Pt. (Robn); Bronxville, NYC, Je–Jl (Woodr); Bronx, **SI,** Mar–Je (Woodr); **LI:** Jamaica, E. New York, Port Washington, Mar–Sep, *Nic* (Not); Far Rockaway, Lawrence, Ft. Hamilton, Ap–Je (Woodr); Orient, *Lath* (NotNYS); Flushing, Ap, *Kngt* (Not).

1573 **P. bogemanni** Gyll. Keene Val., Mt. Whiteface, Lowville, Je–Aug (Not); St. Lawrence Co, *Houghton*; Saranac Inn, Je (Woodr); Gloversville, Ap (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, May–Aug (div.); Karner, Mar, *Bish* (Dt); Pine I., Je, *Ds* (Not); West Pt. (Robn); NYC, Van Cort. Pk., Je, *Nic* (Not); **SI:** May (div. NYS); Tottenville, Je, *Ds* (Not); **LI:** Babylon, Je–Jl (AM); Flatbush (Not AM); Bellport, Jamaica, May–Je (Not); Rockaway Beach, Wyandanch, Half Way Hollow Hills, Je–Jl, *Ds* (Not).

1574 **P. quadripunctatus** Dej. Keene Val., Wallface Mt., Jl, Oct (Not); Mt. Marcy, May (Not,Lg); Mt. Whiteface, Sep (div.); N. Elba, Oct (Lg); St. Lawrence Co, *Houghton*; Buffalo (Z&R); Green Mt., Jl (Not).

1577 **P. aeruginosus** Dej. Ausable Pt., Sep, Westfield, May (Not); Catskills, Jl, *Pears* (Nic); Orangeburg, Ap (Not); West Pt. (Robn); Mosholu, Bronx Pk. (AM); Bronxville, Je (Woodr); NYC (div.); **SI**, *Nic* (Not); **LI**: Brooklyn, May–Je, *Shoe*; Bellport, Rockaway Beach, May–Jl, *Nic* (Not); E. New York, May, Flushing, Aug, *Ds* (Not).

1579 **P. crenistriatus** Lec. Cape Vincent, Sep (Not); Rochester (M&W); Buffalo (Lec-ANSP); Pike, Aug (NYS); Batavia, Jl, *Kngt* (Not); Ithaca, Jl, *Dt* (Vdyk); Junius, Aug, *Dt* (Vdyk); Catskills, *Nic* (Not); Peekskill (Vdyk CU); Westchester Co, Sep (Lg); Bronxville, Ap (Woodr); **SI**: Nov–Dec (Lg); Tottenville, Sep, *Ds* (Not); **LI**: Rockaway Beach, Je–Jl (div.); Long Beach (AM); Sheepshead Bay, Aug, Long Beach, Forest Lawn, Jl (Not); Bergen I., Forest Lawn, Jl, *Zab* (Not).

1580 **P. rubripes** Lec. St. Lawrence Co, *Houghton*; Ithaca, Ap (Vdyk CU); Inlet Val., May, Oct, *Dt* (Vdyk); Unadilla, Sep, *Nic* (Not AM); Bronxville, Mar (Woodr); NYC (Schaupp,Lg); **SI**, Feb–Dec (Lg); **LI**: Far Rockaway, Jl–Sep (Woodr).

1581 **P. punctiformis** Say. Erie Co (Dnd); Rochester (M&W); Ithaca, Jl, *Hamilton* (Vdyk); Hebron (Lg); Peekskill (Vdyk CU); Nyack, *Zab* (Not); Tarrytown (AM); Van Cort. Pk., *Bradford* (AM); NYC, Sep (Woodr); **SI**, Feb–Dec (Lg); **LI**: Jamaica, May, *Nic* (Not); Jamaica Bay, Ap (Woodr); E. New York, May (Not,Ds); Brooklyn, May, *Ds* (Not).

—— **P. politissima** Csy. subsp. **statenensis** Csy. **SI**, type locality.

1582 **P. sordens** Kby. L. Tear, Keene Val., Keene Hgts., Mt. Whiteface, and Wilmington, May–Jl (Not); Rock City, Je (Vdyk CU).

1584 **P. ruficornis** Lec. Mountain View, Cape Vincent, Keene Val., N. Elba, Waterville, Sodus Pt., Batavia, Canadice, May–Oct (Not); Wilmington and base of Mt. Whiteface, Aug, *Dt* (Vdyk); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Howland I., Nov (Vdyk CU); McLean, Ap, *Kngt* (Not); Renwick, Inlet Val., Taughannock Gorge, Ithaca, Ringwood, Jl–Nov, *Dt* (Vdyk); Unadilla, Sep, *Nic* (Not); Karner, Mar, *Bish* (Dt); Catskills, *Nic* (Not); West Pt (Robn); NYC (Schaupp); Bronx, Ap (Woodr); **LI**: Brooklyn, Ap–May, Nov, *Shoe*; Richmond Hill (AM); Flatbush, Ap (Not AM); E. New York, Wading R., May, *Nic* (Not); Flushing, Mar, Rosedale, Ap (Not); Orient, *Lath* (NYS).

1587 **P. elongatulus** Hald. Keene Hgts., Keene Val., Upper Ausable L., Ausable Forks, N. Elba, Mt. Hopkins, Batavia, Catskills, Big Ind. Val., Parkers, May–Oct (Not); St. Lawrence, *Houghton;* Pike, Ap (NYS); Ithaca, Renwick, Ap–Nov, *Dt* (Vdyk); Buttermilk Cr., Mar (Vdyk CU); Peekskill (Vdyk CU); NYC (Schaupp); **SI** (L&D); **LI**: Brooklyn, May, *Shoe*; Flatbush, Sep, *Zab* (Not); Jamaica Bay, Ap (Woodr); Wyandanch, Jl, Pinelawn, Mar, *Ds* (Not).

1585 **P. retractus** Lec. Adirondacks, *Houghton*; Sodus Pt., May (Not).

1586 **P. gemellus** Lec. Ithaca, Mar–Aug, *Hamilton, Dt* (Vdyk CU).

1587 **P. picipennis** Kby. Syracuse, Ap, Je (H); Cape Vincent, Tivoli, Canadice, Westfield, Canisteo, Windsor, Orangeburg, Ap–Sep (Not); Glovers-

ville, Mar (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Je (Lg); Ithaca, Ap (Not); Bronx Pk., West Farms (AM); Van Cort. Pk., Tarrytown, *Bradford* (AM); NYC (Not,Lg); **SI**, Je (Woodr,Lg); **LI**: Brooklyn, May, Nov, *Shoe;* Far Rockaway, May, Ft. Hamilton, Ap (Woodr); Canarsie, Ap, E. New York, Je (Not); Flushing, Mar (Not).

1588 **P. lutulentus** Lec. St. Lawrence Co, *Houghton*; Sodus Pt., May (Not); Batavia, Jl, *Kngt* (Not); Buffalo (Z&R); Westfield, May (Not); Renwick, Ithaca, Inlet Val., Mar–Oct, *Dt* (Vdyk); Peekskill, Jl (VdykCU); **LI**: Brooklyn, Ap–May, *Shoe* (NotAM); Babylon, Je (AM); Bellport, Je (Not); Jamaica Bay, Ft. Hamilton, Ap (Woodr); Canarsie, E. New York, Ap–May (Not).

1589 **P. nigriceps** Lec. "NY", *Rein* (L&B).

1591 **P. quadrimaculatus** Horn. Northwestern NY, *Hamilton* (L&B).

1592 **P. obscurus** Hbst. Adirondacks, *Houghton*; L. Onondaga (Lec); Syracuse, Ap, Oct (H); Canastota, March (Not); Genesee Co, Je (Ds); Batavia, Je (Lg,Ds); Oakfield, Je (Not); Buffalo (Z&R, Lec); E. Aurora (Dnd); Pike (AM); Red House, Je (Not); Howland I., Nov (Vdyk); Ithaca, Mar–Ap, Nov, *Hamilton, Dt* (Vdyk); Renwick, Mar–Ap, Nov, *Dt* (Vdyk); W. Hebron (Woodr,Lg); Whitehall, Oct (Not); West Farms (AM); **SI** (Lg); **LI**: Orient, *Lath* (NYS).

OLISTHOPUS Dejean

1595 **O. parmatus** Say. Keene Val., Whiteface Mt., Sodus Pt., May–Jl (Not); Rochester (M&W); Olcott, Sep (Dt); E. Aurora, Allegany Pk. (Dnd); Spencer, Oct, *Dt* (Vdyk); Howland I. (VdykCU); NYC (Lg); Bronxville, Nov (Woodr); **LI**: Rockaway Beach, Mar–May, *Shoe,Nic* (Not); Far Rockaway, May (Woodr).

1596 **O. micans** Lec. Buffalo (Z&R); West Pt., Je, *Ds* (Not); NYC (LecANSP); **LI**: Rockaway Beach, Je, *Shoe*.

ATRANUS LeConte

1609 **A. pubescens** Dej. Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Howland I., Je, *Dt* (Vdyk); Taughannock Gorge, May, Aug, *Hamilton* (Vdyk); Ithaca, Jl–Sep, *Dt* (Vdyk); Canisteo, Je (Not); Peekskill (VdykCU); West Pt (Robn); **LI**: Rockaway Beach, Ap, *Shoe*; Brooklyn, May, *Shoe*.

LEPTOTRACHELUS Latreille

1610 **L. dorsalis** Fab. NYC (LgAM); **SI** (Lg); **LI**: (Schaupp); Brooklyn, *Shoe* (Ds).

CASNONIA Latreille

1612 **C. pennsylvanica** L. Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Je–Sep (VdykCU); Albany, Je, Nassau and Poughkeepsie, May (NYS); Catskills, *Nic* (Not); Callicoon, Jl, *Ds* (Not); Florida, Je, *FrostSW* (Vdyk); Peekskill, Ap (VdykCU,Lg); West Pt. (Robn); White Plains (Sq); **SI**: May–Sep (div.); Tottenville, May, *Ds* (Not); **LI**: Rockaway Beach, May–Je (div.); Brooklyn, Ap–Je, *Shoe* (AM); Flatbush, Aug–Oct, *Zab* (AM);

Prospect Pk., Feb, Queens (AM); Jamaica, May, *Nic* (Not); Half Way Hollow Hills, Jl, *Ds* (Not); E. New York, Je, Long Beach, Jl (Ds).

GALERITA Fabricius

1616 **G. janus** Fab. Newport, May (NYS); Pulaski, Je (Not); Syracuse, Ap (VdykCU); Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); western NY (Dnd); Rock City, Windsor, Je (Not); Ithaca, Caroline, Ringwood, Ap–Sep, *Dt* (Vdyk); Six Mile Cr., Ap (Not); Spencer, Nov (VdykCU,NYS); Karner, May, *Hill* (NYS); West Pt. (Robn); Carmel, West Farms (AM); White Plains, Mar (Sq); NYC, Bronxville, Van Cort. Pk., Aug–Sep (Woodr); **SI:** *Nic* (Not, Ds); Clove Val., Ap (Not,Lg); **LI:** Rockaway Beach, May–Je, *Shoe*; Parkville (AM); Jamaica, Bellport, Je–Aug, *Nic* (Not); Yaphank, Jl (Woodr,Not,Ds); Cold Sp., May (Not,Ds); Orient, May, *Lath* (Not).

1620 **G. bicolor** Drury. Ausable Pt., Sep (Not); Sodus Pt., Je (Not); western NY (Dnd); Ithaca, Ap–Sep, *Dt* (Vdyk); Whitehall, Oct (Not); Windsor, May (Not); NYC (Lg); **SI:** May–Sep (Ds); Clove Val., Jl (Not,Ds); **LI:** Bellport, Jl–Aug, *Nic* (Not); Farmingdale, Mar, Wading R., May (Not); Yaphank, Oct, *Ds* (Not).

TETRAGONODERUS Dejean

1636 **T. fasciatus** Hald. Buffalo (Z&R); Sylvan Beach, Je (Not); **LI:** Aqueduct, Mar, *Shoe*; Jamaica, May, Rockaway Beach, Sep, *Nic* (Not).

LEBIA Latreille

1641 **L. grandis** Hentz. Newport, Je, Lewis Co, Aug (NYS); Keene Val., (Not); Syracuse, Ap (H); Rochester (M&W); Olcott, Je, Sep–Oct (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Mar–Jl, *Dt* (Vdyk); Peekskill (VdykCU); Port Jervis, Oct (Lint); West Pt. (Robn); White Plains, Mar (Sq); Nyack, Je (Not,Lg); Van Cort. Pk., Je (NotAM); Inwood, Feb, Westchester Co, Ap, Bronxville, Sep (Woodr); NYC (Ds,Lg); **SI:** (Ds,Lg); Watchogue, Aug (Ds); **LI:** Brooklyn, May–Je, Sep–Nov, *Shoe* (AM); Parkville, Long Beach (AM); Jamaica (NYS); Flatbush, Ap–Oct, *Zab* (AM); Bergen Beach, Ap–May, Oct (AM); Queens, Port Washington, Bellport, Mar–Nov, *Nic* (Not); Far Rockaway, May, E. Hampton, Jl (Woodr); Rockaway Beach, Aqueduct, Flushing, Je–Aug, Maspeth, Orient, May–Aug, *Ds* (Not).

—— **L. enormis** Csy. NYC (Csy).

1642 **L. atriventris** Say. Cranberry L., Sep (Drk); Wilmington, Pulaski, Waterville, Westfield, Windsor, Tivoli, May–Jl (Not); Rochester (M&W); White L., Aug, *Zab* (AM); Olcott, Mar, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Ithaca, Mar–Sep, *Dt* (Vdyk); Albany, Poughkeepsie, Je (NYS); W. Hebron (Lg); Catskill (Lg); Esopus (Vdyk,Dt); West Pt. (Robn); Florida, Jl, *FrostSW* (VdykNYS); White Plains, May (Sq); Westchester Co, Ap, Bronxville, Aug–Sep (Woodr); West Farms (AM); Goshen, Sep (NotAM); Van Cort. Pk., Dec–Feb, *Nic* (Not); NYC, Je–Aug (Woodr); **SI** (div.); **LI:** Rockaway Beach (div.); Brooklyn, May, Oct, *Shoe*; Manitou Beach, Coney I., Flatbush, Je–Sep, *Zab* (AM); Bergen Beach, Jamaica, Mar–May, *Nic* (Not); Yaphank, Je (Not).

1643 **L. tricolor** Say. Keene Val., May–Je (Not); Wilmington, Jl, *Ds* (Not); Axton, Je (M&H); St. Lawrence Co, *Houghton*; Canisteo, Je (Not); Olcott, Ap (Dt); Buffalo (VdykCU); Ulster Co, *Shoe*; Van Cort. Pk., Ap (Woodr); West Pt. (Robn); **SI** (Ds); **LI:** Rockaway Beach, Brooklyn, May, Sep, *Shoe*.

1646 **L. atriceps** Lec. Mosholu, Aug (NYS).

1649 **L. pulchella** Dej. Peekskill, Ap, Oct (div.); Morrisania, *Julich* (Schaupp); NYC (Woodr, LgAM); **SI,** Ap (Lg); Silver L., Ap (Ds); **LI:** Yaphank, May–Sep, *Shoe*; Bellport, Rockaway, May, Sep, *Nic* (Not); Amagansett, Sep (Ds).

1654 **L. marginicollis** Dej. **LI:** Flatbush (Ent. News, 1909).

1655 **L. viridis** Say. Generally distributed and common throughout the State.

1655b **L. viridis** Say var. **moesta** Lec. Buffalo (NYS,AM).

1656 **L. cyanea** Dej. "NY" (NYS).

1658 **L. pumila** Dej. Adirondacks, *Houghton* (NYS); Essex Co, Aug (NYS); Saranac L., Sep, *Shoe*; White L., Sep, *Zab* (AM); Ausable Forks, Mt. Marcy, Keene Val., Mt. Whiteface, Sodus Pt., Port Kent, Bronx Pk., Crugers, Carmel, Je–Sep (Not); Rochester (M&W); Buffalo (Z&R); Pike (NYS); E. Aurora (Dnd); Rock City, Je (Not); L. George, Aug, *Zab* (AM); Washington Co (Lg,Ds); West Pt. (Robn); Greenville; Van Cort. Pk. (NotAM); **SI** (Lg); **LI:** Yaphank, Wyandanch, Bellport, May (Not).

1659 **L. pleuritica** Lec. Buffalo (Z&R); West Pt. (Robn); White Plains, Mar (Sq); Westchester Co, May (AM); Van Cort. Pk., Dec, *Nic* (Not); **SI,** Ap (L&D); **LI:** Flatbush; Brooklyn, Ap–Sep, *Shoe*; Jamaica, Queens, Central Pk., Aug–Nov, *Nic* (Not); Massapequa, Rockaway Beach, May–Je (Woodr); Nassau Co, May–Je, Orient, Je (Not,Ds).

1664 **L. viridipennis** Dej. Rochester (M&W); Buffalo (Z&R); Peekskill (div.); **LI:** Jamaica woods, Mar, Oct–Nov (Schaupp); Aqueduct, Aug-Sep, *Shoe*; Bergen Beach, Je (NotAM); Jamaica, *Nic* (Not); Fire I., Sep, *Ds* (Not).

1666 **L. lobulata** Lec. West Pt., Je, *Ds* (Not); Peekskill, Je (Lg).

1667 **L. ornata** Say. Keene Val., Aug–Sep (Not); Newport, Je (NYS); Wilmington, Jl, *Ds* (Not); Mt. Whiteface, Sep (Lg); White L., Aug–Sep, *Zab* (AM); Buffalo (Z&R); Pike, Je (NYS); western NY, scarce, but generally distributed (Dnd); Rock City, Je (Not, Ds); Castile, May, *Brad* (Flet); Ithaca, May–Sep, *Dt* (Vdyk); L. George, Aug, *Zab* (AM); Seneca and Howland I., Je–Nov (Vdyk); Karner, Je (NYS); Windsor, May, and Debruce, Sep (Not); Catskills, *Nic* (Not); New Baltimore, *Zab* (AM); Ramapo Mts., Suffern (AM); Greenville (Schaupp); Van Cort. Pk., *Nic* (Not); Bronxville, Sep (Woodr); NYC (Lg); **SI:** Sep (AM); Watchogue (Ds); Richmond, Je (Woodr); **LI:** Riverhead, Sep (VdykCU); Yaphank, Rockaway, Je, Sep, *Shoe* (AM); Flatbush, Sep, Fishers I., Aug, *Zab* (AM); Jamaica, *Nic* (Not); Bellport, Aug, *Nic* (Not); Orient, *Lath* (NYS); Amagansett, Montauk, Sep (Ds).

—— **L. reperta** Csy. "NY" (Csy).

1669 **L. collaris** Dej. "NY" (Lec).

1671 **L. analis** Dej. Batavia, Je (Ds); Poughkeepsie, May (NYS); Callicoon, Jl (Ds); Florida, Jl, *FrostSW* (Vdyk); White Plains (Frost,Sq); NYC (Lg); Van Cort. Pk., *Nic* (Not); West Farms (AM); **LI:** Jamaica (Schaupp); Westbury, Aug (Champlain); Bellport, Aug, *Nic* (Not); Flushing, Mar (Not).

1672 **L. fuscata** Dej. Generally distributed and common throughout the State.

—— **L. esurialis** Csy. Catskills, *Pears* (Sf).

1675 **L. scapularis** Dej. Manlius, Aug, *SmHH* (VdykNYS); Oneida L., Aug (Drk); Sylvan Beach, Je (Not); Oswego, Jl; Rochester (M&W); Buffalo (Z&R); Ithaca, Aug (VdykCU); Tivoli, May (Not); NYC, Ap (LgAM); **SI**, Je, Aug (Lg); **LI**: Jamaica woods, Mar, Oct–Nov (Schaupp); Jamaica, *Nic* (Not); Rockaway Beach, May–Je, *Shoe*; Long Beach (AM); Forest Hills, Jan (Woodr).

1677 **L. furcata** Lec. Keene Val., Sep, *Ds* (Not); Long L., Aug, Gloversville, Je (NYS); Rochester (M&W); Catskills, *Nic* (Not); **LI**: Quogue, *Zab* (Not); Bellport, Aug, *Nic* (Not); Selden, Aug, Wading R., Je, Rockaway Beach, May, *Ds* (Not); Yaphank, Jl, *Ds*.

1681 **L. vittata** Fab. "NY" (L&B); Peekskill (VdykCU).

1681b **L. vittata** var. **conjungens** Lec. "NY" (Lec).

1682 **L. pectita** Horn. Shokan (Lg); West Farms (AM); Van Cort. Pk., *Nic* (Not); **SI** (div.); **LI**: Yaphank, May, Sep, *Shoe*; Richmond Hill, Jamaica, Bellport, Jl–Aug, *Nic* (Not); Rockaway Beach, May, *Ds* (Not).

1686 **L. bivittata** Fab. Peekskill (VdykCU); **LI**: Rockaway Beach, Yaphank, May–Je, Oct, *Shoe*; Jamaica, *Nic* (Not).

COPTODERA Dejean

1688 **C. aerata** Dej. **SI**, Je (Lg).

DROMIUS Bonelli

1691 **D. piceus** Dej. Keene Val., May–Aug (Not); Olcott, Je (Dt); Buffalo (Z&R,Lg); E. Aurora (Dnd); Penn Yan, Mar, *Cy* (Vdyk); Ithaca, Fall Cr., Feb, Nov (Vdyk); White Plains, Mar, *Ols* (Not); Mosholu, Je (AM); Van Cort. Pk., Nov (Woodr); NYC (Lg); **SI** (Lg); **LI**: Wyandanch, Cold Sp., Yaphank, Pine Lawn, Promised Land, May–Sep, *Ds* (Not); Rockaway Beach, Sep (Woodr); Huntington, Dec (Not).

1692 **D. atriceps** Lec. **LI**: Rockaway Beach (Dietz).

APRISTUS Chaudoir

1693 **A. cordicollis** Lec. Newport, May (NYS); Lowville, Sodus Pt., Canadice, Westfield, Nichols, Windsor, Tivoli, Ft. Hunter, Catskills, May–Je (Not); Rochester; Pike, May, Oct (NYS); Norton's, May (VdykCU); Taughannock Gorge, Jl–Aug, Ithaca, May (Vdyk,Lg); **SI**, May, *Shoe* (Lg); **LI**: Rockaway Beach (VdykCU).

1694 **A. subsulcatus** Dej. Sodus Pt., Canadice, Mayville, Canisteo, Westfield, Nichols, May–Je (Not); Rochester (M&W); Peekskill (VdykCU); West Pt. (Robn); **SI**: Je–Aug (L&D); south shore, Aug (Lg); **LI**: Peconic Bay, Aug, *Nic* (Not); Southold, Sep, Shelter I., Aug, *Ds* (Not).

BLECHRUS Motschulsky

1696 **B. glabratus** Duft. St. Lawrence Co, *Houghton*; Mt. Whiteface, Aug (VdykCU); Olcott, Je, Sep (Dt); Canastota, Mar (Not); Oakfield, Je (Not); Ithaca, Ap (VdykCU); Catskills, *Nic* (Not); West Pt. (Robn); **LI**: Rockaway Beach, May, *Shoe* (Not,Ds).

1698 **B. pusio** Lec. **LI**: Jamaica, *Nic* (Not).

METABLETUS Schmidt-Goebel

1699 **M. americanus** Dej. Keene Val., Keene Hgts., Mt. Marcy, Upper Ausable L., Mt. Haystack, Mt. Whiteface, Waterville, May–Sep (Not); Rochester (M&W); N. Elba, Oct (Lg); St. Lawrence Co, *Houghton*; E. Concord (Dnd); Olcott, Ap, Je, Sep–Oct (Dt); Buffalo (Z&R); Ithaca, Je–Aug, *Hamilton,* Fall Cr. Val., Nov, *Dt* (Vdyk); Karner, Mar (NYS); Catskills, *Nic* (Not); Peekskill (VdykCU); West Pt. (Robn); W. Hebron, NYC (Lg); **SI** (L&D); **LI:** Bellport, Je, Aug, *Nic* (Not); Yaphank, Je, *Ds* (Not); Wyandanch, Oct (Not).

AXINOPALPUS LeConte

1700 **A. biplagiatus** Dej. St. Lawrence Co, *Houghton*; Keene Val., May, Lowville, Je (Not); Olcott, Aug (Dt); Peekskill (VdykCU); NYC (Schaupp); **LI:** Central Pk., Je, *Shoe.*

CALLEIDA Dejean

1707 **C. viridipennis** Say. Buffalo (Z&R, Say).

1710 **C. punctata** Lec. Norwood, Sep (Not); St. Lawrence Co, *Houghton*; Rochester (M&W); Olcott, May (Dt); Buffalo (Z&R); Ft. Erie, Sep, *Julich* (LgAM); Hamburg, Aug (NYS); Cattaraugus, Sep (Vdyk,Dt); Gowanda (Dnd); Castile, *Brad* (Flet); Canisteo, Je (Not); Tivoli, May (Not); White Plains (Frost,Sq); Bronx Pk. (NYS); NYC, *Julich* (Lg); **SI** (Lg); **LI:** *Shoe*; Brooklyn, Sep, *Shoe.*

1712 **C. purpurea** Say. **LI:** Jamaica woods, Je (Schaupp); Yaphank, May, Sep, *Shoe*; Babylon, Je (AM); Hempstead Bay, Aug (Not); Bellport, Ap, *Nic* (Not); Central Pk., May (div.); Fire I., Sep, Promised Land, Je, Riverhead, Aug, *Ds* (Not); Pinelawn, Sep (Ds); Hicksville (Champlain).

PHILOPHUGA Motschulsky

—— **P. obscura** Csy. NY, type locality.

PLOCHIONUS Dejean

1723 **P. timidus** Hald. Buffalo (Z&R); NYC (Schaupp); **SI**, Je, *Pears* (Nic,Lg); **LI:** Jamaica, *Pears* (Nic); Brooklyn, Jl, *Shoe* (AM).

PINACODERA Schaum

1725 **P. limbata** Dej. Rochester (M&W); White L., Jl, *Zab* (AM); Buffalo (Z&R); Coy Glen, Aug, Inlet Val., Sep, *Dt* (Vdyk); Ithaca, Aug (VdykCU); Peekskill (VdykCU); West Pt. (Robn); Ramapo, Ap, *Ds*; Carmel, Aug (AM); NYC (Lg); **SI**, May–Je (div.); **LI:** Coney I., Je (Schaupp); Orient, May (NYS); Brooklyn, Rockaway Beach, May–Sep, *Shoe*; Babylon, Long Beach, Flatbush, May–Je (AM); Jamaica, Ap, Bellport, Jl, Belle Terre, Je, *Nic* (Not); Far Rockaway, Yaphank, May–Aug (Woodr); Wading R., May, *Ds* (Not).

1726 **P. platicollis** Say. Rochester (M&W); Ithaca, Mar–Ap, *Dt* (VdykCU); W. Hebron, Je (Lg); West Pt., Je, *Ds* (Not); Peekskill (VdykCU); Bronxville, Ap (Woodr); NYC (Lg); Arlington, Ap (Woodr);

SI, Oct (L&D); **LI**: Rockaway Beach, Je (VdykCU); Jamaica, Mar, Bellport, Jl, *Nic* (Not); Yaphank, May (Not); West Hills, Ap, *Ds* (Not).

1726a **P. platicollis** var. **fuscata** Dej. "NY" (L&B); Bronx Pk., **SI**, Ap, *Shoe*.

CYMINDIS Latreille

1738 **C. cribricollis** Dej. Mt. Whiteface, *Shoe*, *Dt* (Vdyk); N. Elba (Not); Minerva, Aug (Lg); Saranac L., Jl, Sep, *Shoe*; Buffalo (Z&R); Ithaca (VdykCU); Hebron (Lg).

1746 **C. pilosa** Say. Mountain View, Sep (Not); Westport, Sep, *Nic* (Not); Minerva, Aug (Lg); Gloversville, Sep (NYS); Manlius, *SmHH* (VdykCU); Buffalo (Z&R); Ithaca, Jl–Aug, Dec, *Hamilton* (VdykCU); Albany, Jl (NYS); Catskills, *Nic* (Not); W. Hebron (Lg); Debruce, Sep (Not); West Farms (AM); Bronxville, Mar (Woodr); NYC (Lg); **SI**, May–Je (L&D); **LI**: Rockaway Beach, Je, *Shoe* (Sf); Bellport, Aug–Sep, *Nic* (Not).

1747 **C. borealis** Lec. Elmira (NYS); NYC (Lg); **LI**: Rockaway Beach, Je, *Shoe* (Sf).

1748 **C. neglecta** Hald. Syracuse, Ap (H); Rochester (M&W); Ithaca, Sep, *Dt* (Vdyk); Catskills, *Nic* (Not); Manlius, Feb (VdykCU); Shokan (Lg); NYC, **SI** (Lg).

1749 **C. cribrata** Lec. St. Lawrence Co, *Houghton*.

1751 **C. venator** Dej. "NY" (Lec).

1752 **C. americana** Dej. Manlius, Nov, *SmHH* (Vdyk); Rochester (M&W); Olcott, Ap (Dt); Buffalo (Z&R); E. Aurora (Dnd); Caroline, McLean, Inlet Val., Ithaca, Ap–Sep, *Dt* (Vdyk); Schenectady, Dec (Dt); Catskills, *Nic*, Big Ind. Val., Aug (Not); West Pt (Robn); Mosholu (AM); Van Cort. Pk., Mar, Bronxville, Ap (Woodr); **SI**: (Lg); Clove Val., Ap (Lg); **LI**: Brooklyn, Ap, Oct, *Shoe*; Flatbush, Ap (AM).

APENES LeConte

1753 **A. lucidula** Dej. NYC, Jl (Woodr); **SI**, Je, *Ds* (Not); **LI**: Coney I., May–Je (Schaupp); Rockaway Beach, May, *Shoe* (SfAM); Long Beach (NotAM); Fire I. (Lg).

1756 **A. sinuata** Say. Peekskill (VdykCU); **LI**: Coney I., May–Je (Schaupp); Rockaway Beach, May–Je, *Shoe* (Sf AM); Long Beach (AM); Jamaica, Mar, *Nic* (Not); Far Rockaway, Sep (Woodr).

HELLUOMORPHA Laporte

1765 **H. nigripennis** Dej. **LI**: Rockaway Beach, May, *Shoe* (Sf); Bellport, Je, *Nic* (Not).

1766 **H. ferruginea** Lec. Greenville, Je, Sep (Schaupp).

1769 **H. praeusta** Dej. "NY" (NYS).

1770 **H. bicolor** Harris. "NY" (Lec); West Pt. (Robn); Nyack, May (Lg); Mosholu (L&B); Van Cort. Pk., *Nic* (Not); **LI**: Massapequa, Ap–May, *Shoe*; Yaphank, Sep (Ds).

BRACHINUS Weber

1774 **B. americanus** Lec. Rochester (M&W); Pike, Je (NYS); Nassau, Oct (NYS).

1775 **B. janthinipennis** Dej. L. Onondaga (Lint); L. George, *Nic* (Not); Inlet Val., Jl, Butternut Cr., May, *Dt* (Vdyk); Schoharie, Je (Not).

1776 **B. viridipennis** Dej. Unadilla, Sep, *Nic* (Not); Buffalo (Z&R); Albany, Poughkeepsie, May (NYS); NYC (Schaupp); Croton R., May (Ds); **SI**, May–Je (div.).

1776a **B. viridipennis** var. **perplexus** Dej. Olcott, Ap (Dt); McLean Bogs, Caroline, Ithaca, Ap–Sep, *Dt* (Vdyk); **LI:** Orient, *Lath* (NYS).

1777 **B. pulchellus** Blatch. Olcott, Ap–May, Oct (Dt); **LI:** Jamaica, Ap, *Nic* (Not); Flushing, Mar (Not); Orient, *Lath* (NYS).

1778 **B. minutus** Harris. L. Onondaga (Lec); Chautauqua (Lg); Schoharie, Je (Not); W. Hebron (Lg AM); Catskills, Jl (AM); NYC (Schaupp); **LI:** Wading R., Aug, *Ds* (Not).

1779 **B. medius** Harris. L. Onondaga (Lec); Rochester (M&W); Buffalo (Lg AM); Ithaca, Aug, McLean Bogs, Jl–Aug, *Dt* (Vdyk); W. Hebron (Lg); West Pt. (Robn); **SI** (Lg); **LI** (Lg).

1780 **B. quadripennis** Dej. NYC, *Schaupp* (L&B); Westfield, May (Not).

1782 **B. conformis** Dej. Buffalo (Z&R, Dej ANSP); Pike, May (NYS); White Plains, Aug (Sq).

1783 **B. cyanipennis** Say. Olcott, Ap, Jl (Dt); Batavia, Je (L&D); Genesee Co, Je (Ds); Buffalo (Z&R); McLean Bogs, Ringwood, Ithaca, Caroline, Ap–Aug, *Dt* (Vdyk); Schoharie, Je (Not); NYC (Schaupp).

1784 **B. gracilis** Blatch. Sodus Pt., Je (Not); Westfield, May (Not).

1786 **B. alternans** Dej. Buffalo (Z&R); West Pt. (Robn); NYC (Schaupp); **LI:** Rockaway Beach (Not AM).

1788 **B. ballistarius** Lec. Olcott, Ap, Sep (Dt); E. Aurora, common (Dnd); Ithaca, McLean Bogs, Taughannock Gorge, May–Sep, *Dt* (Vdyk); Windsor, May (Not); Catskills, *Nic* (Not); **LI:** Jamaica, *Nic* (Not).

1789 **B. fumans** Fab. Lowville, Je (Not); Olcott, Jl (Dt); E. Aurora, common (Dnd); Buffalo (Z&R); Pike, May (NYS); Batavia, Westfield, Windsor, Schoharie, May–Je (Not); Danby, McLean Bogs, Caroline, Taughannock Gorge, Ithaca, May–Sep, *Dt* (Vdyk); Karner, Jl (NYS); Croton R., May (Ds); W. Hebron (Lg); NYC, May, Jl (Woodr); **SI,** *Nic* (Not); **LI:** Brooklyn, May, *Shoe*; Flatbush, May, *Zab* (AM); Jamaica, Bellport, *Nic* (Not); Far Rockaway, May (Woodr).

1789a **B. fumans** var. **similis** Lec. Buffalo (Z&R).

1790 **B. cordicollis** Dej. Mooers, Sep, Schoharie, Je (Not); Rochester (M&W); Buffalo (Z&R); Six Mile Cr., Ap (Morr); Ithaca, McLean, Taughannock Gorge, May–Sep, *Dt* (Vdyk); Kenwood, May (NYS); West Pt. (Robn); **LI:** Jamaica, Ap (AM); E. New York, May, *Ds* (Not); Rockaway Beach, May, *Ds*, Flushing, Mar (Not).

—— **B. ovipennis** Lec. Buffalo (Z&R).

—— **B. rejectus** Lec. **SI:** Clove Val., May, *Ds* (Not).

MISCODERA Eschscholtz

1801 **M. arctica** Payk. Keene Val., Je–Jl (Not).

CHLAENIUS Bonelli

1806 **C. tomentosus** Say. Axton, Je (M&H); Severance, Je, Gloversville, Sep (NYS); Wilmington, Aug (Dt); Keene Val. (Not); Pulaski, Je, *Ds* (Not); Olcott, Je, Aug (Dt); Buffalo (Z&R); Ithaca, Je (Dt); W. Hebron, Je (Lg); Unadilla, Sep, *Nic* (Not); West Pt. (Robn); Mosholu (AM); NYC, Bronx, Ap (Woodr); **SI** (div.); **LI:** Rockaway Beach, Brooklyn, May–Je, *Shoe*; Long Beach (AM); Jamaica, Bellport, Jl, *Nic* (Not); Amagansett, Sep (Not, Ds); Orient, May (Not, Ds).

1808 **C. purpuricollis** Rand. **LI:** Far Rockaway, Sep (Woodr).

1810 **C. niger** Rand. Rochester (M&W); Ithaca, Sep (Dt); Van Cort. Pk., *Bradford* (AM); Manhattan, Je (AM); **LI:** Brooklyn, Ap (Woodr); Canarsie, Ap (Not); E. New York, May–Je (Not, Ds); Flushing, Mar (Not).

1814 **C. impunctifrons** Say. Essex Co, Aug (NYS); Crown Pt., Waterville, Westfield, Mayville, Canadice, Nichols, Orangeburg, Tivoli, Ap–Aug (Not); Olcott, Ap, Jl (Dt); E. Aurora, Buffalo (Dnd); Genesee Co, Je (Ds); Batavia, Je, Chautauqua (Lg); Bronx Pk., West Farms (AM); Van Cort. Pk., Ap (Not, Woodr); Bronx, Mar (Woodr); **SI**, Je (Ds); **LI:** Flatbush, Ap (Not); Brooklyn, May, *Nic* (Not).

1817 **C. pennsylvanicus** Say. Generally distributed and common throughout the State, Ap–Sep.

1819 **C. brevilabris** Lec. Lowville, Westfield, Nichols, Canisteo, Whitehall, May–Oct (Not); Syracuse, Ap (H); Batavia, Je, *Kngt* (Morr); Ithaca, Ap–May (Morr); Unadilla, Sep, *Nic* (Not); **LI** (Lec).

1821 **C. tricolor** Dej. Generally distributed and common throughout the State, Ap–Oct.

1822 **C. nemoralis** Say. Rochester (M&W); western NY, frequent (Dnd); Batavia, Je (Lg); Genesee Co, Je, *Ds* (Not); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap–Aug (div.); McLean, Caroline, Ap, Aug (Dt); Catskills, *Nic* (Not); West Pt. (Robn); West Farms, Mosholu (AM); NYC, Bronx, Mar–Aug (Woodr); **SI**, *Nic* (Not, Lg); **LI:** Brooklyn, May–Aug, *Shoe*; Long Beach (AM); Flatbush, May–Aug, *Zab* (AM); Jamaica, *Nic* (Not); Hauppauge, Ap (Not); Rockaway, Central Pk., Ap–May, *Ds* (Not); Calverton, Sep, Yaphank, Jl, *Ds* (Not).

1827 ?**C. vafer** Lec. Buffalo (Z&R). Described from Tex. (Lg).

1830 **C. solitarius** Say. Buffalo (Z&R).

1831 **C. leucoscelis** Chev. Ausable Pt., Crown Pt., Sodus Pt., Westfield, Canisteo, Nichols, Whitehall, Ft. Hunter, May–Oct (Not); Rochester (M&W); Lakes Erie and Ontario; Olcott, Ap, Jl (Dt); Buffalo (Lg); Ithaca, May–Je (div.); Taughannock Gorge, May, Aug (Dt); North Branch, Aug (Schaupp); Croton R. (L&B); Suffern, *Sf* (Lg AM); **LI:** Forest Lawn, Aug (Not AM).

1831a **C. leucoscelis** var. **cordicollis** Kby. Buffalo (Z&R).

1934 **C. prasinus** Dej. Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Westfield, May (Not).

1838 **C. aestivus** Say. Buffalo (Z&R); Ithaca, Sep (Dt); Albany, Poughkeepsie, May (NYS); Tivoli, May (Not); Ft. Montgomery, May (Not); Peekskill (Lg); Palisades-on-Hudson, Ap (Not AM); West Pt., Je, *Ds* (Not); Nyack, *Zab* (AM); White Plains, Ap (Sq); Van

Cort. Pk. (div.); Bronx, Mar–Ap (Woodr); Mosholu, May (Ds); NYC, Sep (Vdyk); Yonkers, Ap, Bronxville, Ap–May (Woodr); **SI:** May–Sep (div.); Clove Val., Jl, *Ds* (Not); **LI:** Jamaica, *Nic* (Not); Wading R., Aug, *Ds* (Not).

1841 **C. diffinis** Chd. Van Cort. Pk., *Nic* (Not); **LI:** Rockaway Beach, Ap (AM); Jamaica, Brooklyn, E. New York, Ap, *Nic* (Not).

1842 **C. laticollis** Say. Buffalo (Z&R); Ithaca, Oct, *Flet* (Dt); Van Cort. Pk. (Not AM); **SI,** Ap, *Ds*; **LI:** Rockaway Beach, Brooklyn, Ap–May, *Shoe* (AM); Bergen Beach, Ap (Not AM); Jamaica (div.); E. New York, Rockaway, May, *Ds* (Not).

1846 **C. sericeus** Forst. Generally distributed and common throughout the State, Mar–Oct.

1847 **C. fuscicornis** Dej. Buffalo (Z&R).

1848 **C. erythropus** Germ. Buffalo (Z&R); **LI:** Jamaica, *Nic* (Not).

ANOMOGLOSSUS Chaudoir

1854 **A. delectans** Csy. Central New York (Csy).

1856 **A. emarginatus** Say. Wallface Mt., Jl, *Nic* (Not); Keene Val., Jl (Not); Rochester (M&W); Olcott, Je (Dt); E. Aurora (Dnd); Castile, *Brad* (Flet); Pike, May (NYS); McLean, May, *Ds* (Not); Ithaca, Freeville, Taughannock Gorge, May–Sep (Dt); Peekskill (Lg); Mosholu, West Farms, Dunwoodie, Van Cort. Pk. (AM); NYC, Van Cort. Pk., Ap (Woodr); **SI,** Ap (L&D); **LI:** Jamaica, May–Oct (Schaupp); Rockaway Beach, Je, *Shoe*; Parkville, Long Beach (AM); Rockaway, Aug, *Zab* (AM); Half Way Hollow Hills, Jl, Yaphank, Je, *Ds* (Not).

1858 **A. pusillus** Say. Buffalo (Z&R); Mosholu (AM); Bronx, Ap, NYC, Aug (Woodr); **SI,** Mar–Oct (Lg); **LI:** May–Sep (Schaupp); Rockaway Beach, Je, *Shoe* (AM); Coney I., *Lg*.

—— **A. coeruleicollis** Chd. Van Cort. Pk. (AM); **SI,** *Nic* (Not); **LI:** Babylon, Jl (AM); Jamaica, *Nic* (Not).

BRACHYLOBUS Chaudoir

1860 **B. lithophilus** Say. St. Lawrence Co, *Houghton*; Mooers, Waterville, Canisteo, Westfield, Nichols, Tivoli, Schoharie, May–Sep (Not); Rochester (M&W); Buffalo (Z&R); Olcott, May (Dt); McLean, Ithaca, Aug–Sep (Dt); W. Hebron, Je (Lg); Van Cort. Pk., Jl (Not AM); Suffern, West Farms (AM); **SI** (L&D); **LI:** Brooklyn (Not); Jamaica, Ap–May, Ft. Hamilton, Ap (Woodr); Canarsie, Ap (Not); E. New York, May, *Ds* (Not).

LACHNOCREPIS LeConte

1862 **L. parallelus** Say. Rochester (M&W); Sodus Pt., May–Je (Not); Buffalo (Z&R); Erie Co, May–Aug (Dnd); Ithaca, Mar–Ap, *Dt* (Vdyk); Tivoli, May (Not); White Plains, Mar (Sq); **LI:** Ridgewood, Je (Schaupp); Brooklyn, Ap–May, *div.* (Not); Jamaica Bay, Ap (Woodr); Canarsie, May (Not); E. New York, May–Je (Not).

ANATRICHIS LeConte

1863 **A. minuta** Dej. **LI:** Huntington (Schott).

OODES Bonvouloir

1867 **O. amaroides** Dej. Rochester (M&W); Ulster Co, May, Jl, *Shoe*; White Plains, May–Aug (Sq); **SI** (Lg); **LI:** Ridgewood (Schaupp); Brooklyn, May, Jl, *Shoe*; Babylon (AM); Wading R., Aug, *Ds* (Not).

1868 **O. americanus** Dej. Rochester (M&W); Buffalo (Z&R); McLean Bogs, Jl, *Dt* (Vdyk); Tivoli, May (Not); Catskill (Lg); Pine I., Je, *Ds* (Not); Van Cort. Pk., Ap (Woodr); NYC (Lg); **LI:** Brooklyn, May (div.).

1869 **O. fluvialis** Lec. Buffalo (Z&R); Catskill (Not, Lg); NYC (Lec).

1870 **O. cupreus** Chd. Buffalo (Z&R).

GEOPINUS Leconte

1878 **G. incrassatus** Dej. Gloversville, May (NYS); Rochester (M&W); Buffalo (Z&R); Karner, May (NYS); Greenville (Schaupp); Catskill (Not, Lg); **SI,** Je (Lg); **LI:** Coney I., Rockaway, May–Sep (Schaupp); Rockaway Beach, Je (AM); Jamaica, May, *Nic* (Not).

CRATACANTHUS Dejean

1886 **C. dubius** Beauv. Buffalo (Z&R); NYC (Lg); **LI:** Coney I., Je–Jl (Schaupp); Jamaica, *Nic* (Not).

HARPALUS Latreille

1896 **H. caliginosus** Fab. Keene Val. and Port Kent (Not); Glens Falls, Je, Nassau, Sep, Albany, Je (NYS); Junius, Aug (Dt); Ilion, Pike, Clinton Hgts., Aug (NYS); White L., Aug, *Zab* (AM); Monroe Co (M&W); Olcott, Je–Jl (Dt); Buffalo (Z&R); E. Aurora, common about dry fields (Dnd); Batavia, Je (Lg); Castile, *Brad* (Flet); Elmira, Je (Diven); Ithaca, May–Jl (Dt); Nichols, May (Not); W. Hebron, Je (Lg); Columbia Co, Sep; Whitehall, Oct (Not); West Pt. (Robn); Nyack, *Zab* (AM); Van Cort. Pk., Jl (NotAM); NYC, Je–Jl (Woodr); **SI,** Je–Sep (Lg,Ds); **LI:** many localities and collectors.

1897 **H. erraticus** Say. Keene Val., Jl (Not); Essex Co, Jl (NYS); St. Lawrence Co, *Houghton*; Mountain View, Norwood, Ausable Forks, Keene, Ausable Pt., Mooers, Aug–Sep (Not); Rochester (M&W); Olcott, May–Jl, Oct (Dt); Buffalo (Z&R); Schenectady (Dt); L. George, Aug, *Zab* (AM); New Baltimore, Jl, *Shoe* (AM); Whitehall, Oct (Not); **SI,** Aug (L&D); **LI:** Aqueduct, Sep, *Shoe*; Woodhaven (AM); Fishers I., Aug, *Zab* (AM); Bellport, *Nic* (Not); Selden, *Ds* (Not).

1898 **H. caudalis** Csy. "NY" (Csy).

1903 **H. viridiaeneus** Beauv. Castile, *Brad* (Flet); generally distributed and common throughout the State, Je–Sep.

1907 **H. vagans** Lec. Mooers, Lowville, Canisteo, L. Waccabuc, Nichols, May–Aug (Not); Glens Falls, Jl (NYS); Monroe Co (M&W); Inlet Val., McLean Bogs, Freeville, Ithaca, Renwick, May–Sep (Dt).

1909 **H. haldemani** Csy. **LI** (Csy).

1910 **H. erythropus** Dej. Keene Val., Jl (Not); Buffalo (Z&R); Westport, Newport, Pike, Albany, Poughkeepsie, Je–Aug (NYS); Montour Falls, Ap (H); E. Aurora, Aug–Sep (Dnd); Big I., Sep (Not); Olcott, Sep (Dt); Ithaca, Ringwood, Jl–Sep (Dt); Carmel, Aug (AM); NYC, Aug–Sep (Woodr); Bronxville, Aug (Woodr); **SI,** Aug (L&D); **LI:** Aqueduct, Sep; Brooklyn, Aug, *Shoe*; Bergen Beach (NotAM); Jamaica, Oct, Bellport, Je–Oct, *Nic* (Not).

1913 **H. effetus** Csy. **LI:** Willetts Pt. (Csy).

1915 **H. compar** Lec. Saranac L., Sep (AM); Wilmington, Jl, *Ds* (Not); Syracuse, Ap (H); western NY, common (Dnd); Olcott, Je–Jl (Dt); Monroe Co (M&W); Buffalo (Z&R); Oakfield, Je (Not); Canisteo, Je (Not); Ithaca, Ap, Jl, Sep (Ds); Inlet Val., Butternut Cr., May–Sep (Dt); Whitehall, Oct, Parkers, Je (Not); Windham, Oct (Dt); Ft. Hunter, Je (Not); NYC (Schaupp, Lg); **LI:** Astoria (AM); Forest Pk., Je (NotAM); Brooklyn, Oct (Not); Bellport, Jl–Aug, Jamaica, *Nic* (Not); Selden, Aug, *Ds* (Not).

1920 **H. longicollis** Lec. Keene Val., Jl (Not); Newport, Jl (NYS); Thousand Isls. (Ds); Genesee Co, Ap, *Kngt* (Not,Ds); Batavia, May, *Kngt* (Not); western NY (Dnd); Elmira, Je (Diven); Ithaca, Jl, *Hamilton* (Vdyk); L. Waccabuc, Jl (NotAM); Whitehall, Oct (Not); **SI,** Jl–Aug (L&D); **LI:** Flushing, Ap (Not).

1921 **H. dolosus** Csy. Plattsburg (Csy).

1922 **H. faunus** Say. Ausable Chasm, Sep (Not); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Aug (Dt,Lg); Albany, Jl (NYS); Whitehall, Oct (Not); Van Cort. Pk., *Nic* (Not); **SI,** Ap, Sep (div.); **LI:** Jamaica, Bellport, Aug–Sep, *Nic* (Not).

1925 **H. pennsylvanicus** Dej. Generally distributed and common throughout the State, Mar–Sep.

1926 **H. convivus** Lec. Wilmington, Jl, West Pt., Je, *Ds* (Not); **LI:** Rockaway Beach, Je, *Ds* (Not).

1933 **H. viduus** Lec. Rock City, Je (Not); Ithaca, McLean Bogs, May, Aug, *Hamilton* (Vdyk); Windsor, Je (Not); Ramapo, Ap (Ds).

1934 **H. laticeps** Lec. Keene Val., May (Not); Axton, Je (M&H–AM); E. Aurora (Dnd); Ithaca, May, Butternut Cr., Jl (Dt); Caroline, Ap (Dt).

1936 **H. rufimanus** Lec. Keene Val., Je–Aug (Not); Elmira, Ap (Diven); Ithaca, Ap, *Alex* (Not); Catskills, *Nic* (Not).

1944 **H. pleuriticus** Kby. Generally distributed and common throughout the State, Ap–Sep.

1956 **H. herbivagus** Say. Generally distributed and common throughout the State, Ap–Sep.

1957 **H. fallax** Lec. Batavia, Je, *Ds* (Lg); Castile, *Brad* (Flet); Ithaca, Sep, Caroline, Ap (Dt); Karner, May, Albany, Je (NYS); Catskills, *Nic* (Not); Peekskill (Ds); **LI:** Rockaway Beach, May (Woodr).

1959 **H. placidus** Csy. **LI:** Willetts Pt. (Csy).

1968 **H. opacipennis** Hald. Keene Val., May–Jl (Not); Mt. Skylight, Jl (Not); Sodus Pt., May (Not); Ithaca, Ap, *Alex* (Vdyk); Debruce, Sep (Ds); NYC (Lg).

1971 **H. nitidulus** Chd. **LI:** Coney I. (Schaupp).

1978 **H. fulvilabris** Mann. Mt. Hopkins, Je, Mt. Marcy, Jl, Sodus Pt., May (Not).

1981 **H. lewisi** Lec. Keene Val. (Not).

1982 **H. aesopus** Csy. Plattsburg (Csy).

2000 **H. gravis** Lec. Buffalo (Z&R); **LI:** Orient Pt., May (NYS).

2006 **H. obesulus** Lec. Sodus Pt., May (Not).

2007 **H. spadiceus** Dej. Newport, Jl, Ilion, May, Pike, Je, Albany, Je (NYS); Monroe Co (M&W); Buffalo (Z&R); Chautauqua (Lg); Ithaca, May, Sep (Dt); W. Hebron (Lg); Catskill (Not, Lg); NYC (Not, Lg); **SI,** Ap (Lg); **LI:** Brooklyn, Ap, Sep–Oct, *Shoe*; Jamaica, *Nic*, Yaphank, Jl, *Ds* (Not).

2009 **H. vulpeculus** Say. Monroe Co (M&W); Chautauqua (Lg); Rock City, Je, *Ds* (Not); Ithaca, Je–Sep (Vdyk, Dt); Windsor, May (Not); W. Hebron (Lg); Catskills, *Nic* (Not); West Pt. (Robn); Van Cort. Pk., *Nic* (Not); Bronxville, Ap (Woodr); **SI,** Mar (L&D); **LI:** Jamaica, E. New York (Schaupp); Brooklyn, Aug, Oct, *Shoe*; Queens, Nov, *Nic* (Not).

2010 **H. dichrous** Dej. Monroe Co (M&W); Olcott, Je, Oct (Dt); Ithaca, Jl (Dt); W. Hebron (Ds); New Baltimore, Jl, *Shoe* (AM); Van Cort. Pk., Sep (NotAM); **SI,** Je–Sep (Ds); **LI:** Jamaica (Not, Schaupp); Rockaway (AM).

—— **H. immixtus** Csy. NY, type locality (Lg).

—— **H. admissus** Csy. NY, type locality (Lg).

—— **H. amiculus** Csy. NY, type locality (Lg).

SELENOPHORUS Dejean

2013 **S. opalinus** Lec. Monroe Co (M&W); Olcott, May–Je (Dt); Ithaca, Je–Jl, McLean, Jl (Dt); Coy Glen, Je, *Ds* (Not); L. George, Aug, *Zab* (Not); Shokan (Lg); Huguenot, Aug, *Zab* (Not); Orange Co, Ap (Morrison); Van Cort. Pk. (AM); NYC, Je–Jl, Bronxville, Ap (Woodr); **SI,** Ap, Je–Jl (L&D); **LI:** Long Beach (AM); Jamaica, Je (Schaupp); Yaphank, Aug (NotAM); Wading R., May (AM); Far Rockaway, Je (Woodr); Rockaway Beach, Je, *Ds* (Not).

2015 **S. depressulus** Csy. Monroe Co (M&W); Buffalo (Z&R); Ithaca, Jl.

2017 **S. gagatinus** Dej. E. Aurora (Dnd); Ithaca, Ap, Jl (Dt); Catskills, *Nic* (Not); **LI:** Coney I. (Schaupp); Rockaway Beach, Je–Jl, *Shoe* (AM); Wyandanch, Jl, *Ds* (Not).

2024 **S. fossulatus** Dej. **LI:** Rockaway Beach, May, *Shoe*.

2026 **S. ellipticus** Dej. NYC (AM); Bronxville, Ap, Van Cort. Pk., Je (Woodr); **SI,** Sep (Lg); **LI:** Brooklyn, Rockaway Beach, May–Je, *Shoe* (DsAM); Jamaica, *Nic* (Not).

2027 **S. currens** Csy. Catskills (Csy).

2039 **S. pedicularius** Dej. Monroe (M&W); **SI** (div.); **LI:** Long Beach (AM); Jamaica, Bellport, Je–Sep, *Nic* (Not).

GYNANDROPUS Dejean

2051 **G. hylacis** Say. Monroe Co (M&W); Olcott, May (Dt); E. Aurora, rare (Dnd); Pike, Mar, Albany and Karner, Ap (NYS); Ithaca, Jl–Aug (Vdyk); Peekskill (Lg); West Pt. (Robn); Huguenot, Aug, *Zab* (Not); NYC, Je (Woodr); Van Cort. Pk., Sep (NotAM); **SI,** Feb (div.); **LI:** Woodhaven, May (Vdyk); Rockaway Beach, Ap–Jl, *Shoe* (Not); Jamaica, Ap, *Nic* (Not); Far Rockaway, Je (Woodr).

DISCODERUS LeConte

2064 **D. parallelus** Hald. Catskills, *Nic* (Not); **LI:** Babylon, Jl (AM).

TRIPLECTRUS LeConte

2070 **T. carbonarius** Say. Newport, Je, Gloversville, Ap, Albany, May (NYS); Monroe Co (M&W); Westfield, May (NotNYS); NYC, Aug (Woodr); **SI,** Ap, *Lg*, *Ds* (Not); **LI:** Flatbush, Ap (NotAM); Prospect Pk., Feb (Not); Rockaway Beach, Mar, *Nic* (Not); Brooklyn (Lec).

2071 **T. rusticus** Dej. Castile, *Brad* (Flet); generally distributed and common throughout the State, Ap–Sep.

2072 **T. crassus** Lec. "NY" (Lec).

—— **T. kempi** Csy. NY, type locality (Lg).

ANISODACTYLUS Dejean

2087 **A. harrisii** Lec. St. Lawrence Co, *Houghton*; Norwood, Sep (Not); Newport, Pike, Albany, May (NYS); Olcott, Ap, Je, McLean, Jl, Ithaca, Ap–Jl (Dt); Johnstown, Genesee Co, Windsor, Centre I., Chauncey, Canisteo, Whitehall, Orangeburg, Catskill, Ft. George, Ft. Hunter, Sloatsburg, NYC, Ap–Sep (Not); Syracuse, Ap (H); West Pt. (Robn); Tarrytown, May (AM); Bronx, Bronxville, Ap (Woodr); **SI,** Ap–Je (Ds); **LI,** fairly common, Ap–Je (div.).

2088 **A. nigerrimus** Dej. Norwood, Johnstown, Westfield, Greenwood L., Windsor, Nichols, Whitehall, Sloatsburg, Dunwoodie, Ap–Oct (Not); Monroe (M&W); E. Aurora, Hamburg (Dnd); Ithaca, Mar–Jl (Dt, Vdyk); Catskills, *Nic,Lg* (Not); Van Cort. Pk., Mar (NotAM); **SI,** Mar–May (Lg); **LI:** Bergen Beach, May (NotAM); Cypress Hills, May, *Zab* (Not); Rockaway Beach, Ap, Bellport, Jl–Aug, *Nic* (Not).

2089 **A. melanopus** Hald. Westfield, May, Greenwood L., May, Chauncey, Mar (Not); West Pt. (Robn); White Plains, Mar, *Ols* (Not); Van Cort. Pk., Mar (WoodrAM); **LI:** Bergen Beach, May, Cypress Hills, Je–Jl, Nov (NotAM); Rosedale, Ap (Not).

2090 **A. nigrita** Dej. St. Lawrence Co, *Houghton*; Waterville, Je (Not); Buffalo (Z&R); Monroe Co (M&W); Ithaca, May, Nov (Dt); Nichols, May (Not); West Pt. (Robn); NYC; Bronx, Mar, *Nic* (Not); **SI,** Ap (div.); **LI:** Brooklyn, May, Oct, *Shoe* (AM); Cypress Hills, Jl (Not); Jamaica, Ap–May, *Nic* (Not); E. New York, May (Not); Calverton, Sep (Not).

2091 **A. interpunctatus** Kby. Axton, Je (M&H); Batavia, May, *Kngt* (Not); Olcott, Je (Dt); Niagara Falls (Lec); Montour Falls, Ap (H); western NY, common (Dnd); Potter Swamp, Je (Not); McLean Bogs, Jl, *div.* (Vdyk); Whitehall, Oct (Not); White Plains, Sep, *Sq* (Sf); **LI:** Jamaica, Mar, *Nic* (Not); Brooklyn, May, *Ds* (Not); E. New York, May, Rockaway Beach, Je, *Ds* (Not); Flushing, Mar (Not).

2092 **A. agricola** Say. Olcott, Aug–Sep (Dt); Pike (NYS); Bronx, May, *Nic* (Not).

2094 **A. semipunctatus** Lec. Western NY, common (Dnd).

2097 **A. sericeus** Harr. **LI:** Orient, *Lath* (NYS).

2107 **A. coenus** Say. Monroe Co (M&W); NYC (div.); **SI**, Je (LgAM); **LI:** Rockaway Beach (AM); Flatbush, Ap–Je, *Zab* (Not); Jamaica, *Nic* (Not); Brooklyn (Lec).

2108 **A. laetus** Dej. NYC (L&W).

2109 **A. similis** Lec. Buffalo (Z&R). Described from Oregon (Lg).

XESTONOTUS LeConte

2110 **X. lugubris** Dej. St. Lawrence Co, *Houghton*; Keene Val., Ap–Je (Not); Olcott, Je (Dt); E. Aurora, Mar (Dnd); Niagara Falls (Lec); Westfield, May (Not); Cortland Co (Dnd); Ithaca, Oct, McLean, Aug, Nov (Dt); Catskills, *Nic* (Not); Catskill (Not,Lg); Croton L., Ap (Not); White Plains, Ap–May (Sq); Bronx Pk., Ap (Woodr); **SI**, May (Lg); **LI:** Parkville (AM); Bergen Beach, Ap (NotAM); Jamaica, Ap, *Nic* (Not); Flushing, Mar (Not).

AMPHASIA Newman

2111 **A. interstitialis** Say. Monroe Co (M&W); Syracuse, Montour Falls, May–Je (H); Olcott, Oct (Dt); Buffalo (Z&R); Genesee Co, Je (Lg); Batavia, Je (Lg); Castile, *Brad* (Flet); Ithaca, Ap, Sep (Dt); Trenton Falls (Not); Rensselaer, Albany, Poughkeepsie, Ap, Oct (NYS); Concord (NotAM); Schoharie, Whitehall, Tivoli, L. Mohonk, Je–Sep (Not); West Pt. (Robn); Ramapo, Je (Lg); Van Cort. Pk., May (div.); Bronx, Mar–Ap (Woodr); **SI**, Feb–Nov (L&D); **LI:** Queens, Nov, Jamaica, Mar, *Nic* (Not); Far Rockaway, May (Woodr); Pinelawn, Je (Ds).

PSEUDAMPHASIA Casey

2112 **P. sericea** Harr. Olcott, May (Dt); Monroe Co (M&W); Buffalo (Z&R); Ithaca, Ap–Jl (Dt); Albany, Jl, Hill (NYS); Ft. Hunter, Je (Not); West Pt. (Robn); Nyack, *Zab* (NotAM); NYC (Schaupp); **SI**, May–Je (L&D); **LI**, rather common.

ANADAPTUS Casey

2126 **A. discoideus** Dej. Ausable Lakes, Jl–Aug, Keene, Mountain View, Lowville, Pulaski, Canisteo, Westfield, Windsor, Schoharie, Nichols, Ft. Hunter, May–Oct (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora, Gowanda (Dnd); Newport, Albany, Je (NYS); Ithaca, Je–Jl (Dt); West Pt. (Robn); W. Hebron, Je (Lg); NYC, Je (Woodr); **SI**, May (Lg).

2127 **A. baltimorensis** Say. Castile, *Brad* (Flet); generally distributed and common throughout the State, Ap–Sep.

ANISOTARSUS Chaudoir

2132 **A. sayi** Blatch. (*piceus* Lec.). Junius, Aug (Dt); Ithaca, Aug (Lg); West Pt. (Robn); **SI**, *Ds* (Not); **LI:** Fishers I., Aug, *Zab* (Not); Calverton, Yaphank, Wading R., Jl, Sep, *Ds* (Not).

2139 **A. terminatus** Say. Monroe Co (M&W); Buffalo (Z&R); Cattaraugus Co, Jl (Not); Ithaca, Jl–Aug (Dt); White Plains, *Sq* (Sf); NYC, Jl–Sep (div.); Bronx Pk., Yonkers (AM); **SI,** Jl–Aug (L&D); **LI:** Cold Sp. Harb., Jl (NotAM); Flatbush, Aug, *Zab* (Not); Bellport, Jl–Aug, *Nic* (Not); Rockaway Beach, May, Far Rockaway, Jl (Woodr).

2143 **A. nitidipennis** Lec. E. Aurora, Boston (Dnd); Ithaca, May (Dt); Mosholu, May (Not,Ds); **LI:** Wading R., May, *Nic* (Not).

SPONGOPUS LeConte

2144 **S. verticalis** Lec. Monroe Co (M&W); Batavia, May, *Kngt* (Not); Westfield, May (Not); Ft. Hunter, Je (Not); NYC (Schaupp); Bronx, Van Cort. Pk., Mar–Ap (Woodr); **LI:** Lawrence, Rockaway, Ap (Woodr).

TRICHOCELLUS Ganglbauer

2146 **T. cognatus** Gyll. West Pt., *Robn* (Csy); NYC (Schaupp).

GLYCERIUS Casey

2151 **G. nitidus** Dej. "NY" (DejANSP).

EPISCOPELLUS Casey

2156 **E. autumnalis** Say. Buffalo (Z&R); Ithaca, Je–Jl, Sep (Dt,Lg); Cortland Co (Dnd); West Pt (Robn); **SI:** Tottenville, May, *Ds* (Not); **LI:** New Jamaica, E. New York (Schaupp); Babylon, Jl (AM); Rockaway Beach, Queens, *Nic* (Not); Canarsie, Ap (Not).

TACHYCELLUS Morawitz

2158 **T. nigrinus** Dej. Keene Val., Keene Hgts., Ausable Lakes, Sodus Pt., Mayville, May–Jl (Not); Whiteface Mt., Sep (Lg); Renwick, Ap, Caroline, Ap, *Dt* (Vdyk); West Pt. (Robn).

TRILIARTHRUS Casey

2159 **T. badiipennis** Hald. Whiteface Mt., Upper Ausable L., Keene Val., Portage, May–Aug (Not); N. Elba, Oct (Lg); Monroe Co (M&W); Buffalo (Z&R); Caroline, Ap, Ithaca, Mar–May, *Dt* (Vdyk); Catskills (Lg); West Pt (Robn); Ramapo Mts., May (AM); NYC (Schaupp); Bronx (Woodr); Van Cort. Pk., May (Not); **SI,** May (Lg); **LI:** Far Rockaway, May (Woodr); Rockaway Beach, May, Long Beach, Jl, *Ds* (Not); Jamaica (Lg); Rosedale, Ap (Not).

2161 **T. properus** Csy. West Pt. (Csy).

2162 **T. kirbyi** Horn. Waterville, Je, Sodus Pt., Je, Batavia, May, Canisteo, Je, McLean, Ap (Not); Ithaca, May–Je, Sep, *Dt* (Vdyk); **LI:** Rosedale, Ap (Not).

2163 **T. atrimedius** Say. Monroe Co (M&W); Buffalo (Z&R); Canisteo, Nichols, Orangeburg, Tivoli, Ap–Je (Not); NYC (Schaupp).

CATHARELLUS Casey

2167 **C. cordicollis** Lec. Keene Val., May–Jl (Not); L. Tear, Jl (Not); Manitou Beach, Je, *Zab* (Not).

STENOCELLUS Casey

2169 **S. antennalis** Csy. Catskills (Csy).

2170 **S. insulsus** Csy. NYC (Csy).

2171 **S. rupestris** Say. Generally distributed and common throughout the State, Feb–Oct.

2172 **S. occultus** Csy. Batavia, Jl–Aug, *Kngt,* Canisteo, Je (Not); L. Champlain, Catskills (Csy).

2173 **S. debilipes** Say. Lowville, Nichols, Sodus Pt., Schoharie, Windsor, Ft. Hunter, May–Je (Not); **LI:** Nissequogue, Canarsie, Wading R., May–Je (Not); Syracuse, Montour Falls, Ap–May (H).

2174 **S. cinctus** Say. "NY" (Csy).

2175 **S. congener** Lec. West Pt., *Robn* (Csy).

2195 **S. tantillus** Dej. Keene Val., L. Tear, Cape Vincent, Port Kent, Sodus Pt., Oakfield, Nichols, Ft. Hunter, Windsor, May–Sep (Not); Olcott, Feb, Jl (Dt); E. Aurora (Dnd); Ithaca, Mar, Jl, McLean, Jl (Dt); **SI,** Dec–Mar (AM,Lg); **LI:** Rockaway Beach, Ap–May, *Shoe*; Bellport, Jl, *Nic* (Not).

2198 **S. neglectus** Lec. Buffalo (Z&R); Ithaca, Je–Jl, *Hamilton* (Vdyk); West Pt., *Robn* (Csy).

—— **S. nigriceps** Lec. Ithaca, May, *Hamilton* (Vdyk).

AMERINUS Casey

2203 **A. linearis** Lec. Monroe Co (M&W).

PHILODES LeConte

2205 **P. testaceus** Lec. Olcott, Mar (Dt); Canisteo, Yates Co, Windsor, Nichols, May–Je (Not); Taughannock Gorge, Coy Glen, May, *Dt* (Vdyk).

GONIOLOPHUS Casey

2209 **G. rectangulus** Chd. Nichols, May (Not).

ACUPALPUS Latreille

2211 **A. hydropicus** Lec. St. Lawrence Co, *Houghton*; Monroe Co (M&W); West Pt. (Robn); Bronx Pk., Mar–Ap, *Shoe*; Van Cort. Pk., Ap (Woodr); **SI,** Feb–Ap (div.); **LI:** Brooklyn, Mar–Ap, *Shoe*; Jamaica, Ap, *Nic* (Not).

2213 **A. carus** Lec. Keene Val., Ausable Pt., Mt. Marcy, Waterville, Sodus Pt., Batavia, Oakfield, Nichols, Tivoli, May–Sep (Not); Gloversville, Mar, Johnstown, Ap (NYS); Monroe Co (M&W); Olcott, Mar–Ap (Dt); Buffalo (Z&R); Ithaca, May, McLean Bogs, Jl (Dt); West Pt. (Robn); Bronx, Ap (Woodr); **SI,** Feb–Sep (div.); **LI:** Brooklyn, May, Jamaica, Ap, *Nic* (Not).

2215 **A. trivialis** Csy. L. Champlain (Csy).

STENOLOPHUS Dejean

2216 **S. carbonarius** Dej. **SI** (Lg); **LI:** Hauppauge, Ap, *Nic* (Not).

2218 **S. ochropezus** Say. Rather generally distributed throughout the State, Ap–Nov.

2220 **S. fuliginosus** Dej. Keene Val., Upper Ausable L., Wallface Mt., L. Tear, Canadice, Sodus Pt., Canisteo, Genesee Co, Tivoli, Orangeburg, Ap–Sep (Not); St. Lawrence Co, *Houghton*; Monroe Co (M&W); Olcott, Feb–Ap (Dt); E. Aurora, scarce (Dnd); Pike, Ap (NYS); Renwick, Ap, Nov, *Dt* (Vdyk); Ithaca, McLean, Jl–Aug, *Dt* (Vdyk); West Pt. (Robn); Van Cort. Pk. (AM); **SI:** Feb, Ap, Oct (L&D,Woodr); Watchogue, Ap, *Ds* (Not); **LI:** Jamaica, Rockaway Beach, May, *Nic* (Not).

2232 **S. dissimilis** Dej. Buffalo (Z&R).

2234 **S. plebejus** Dej. Pike, Albany, Poughkeepsie, Ap–May (NYS); Ithaca, Mar, Je, *Dt* (Vdyk); Ramapo, Ap (Not,Ds); Van Cort. Pk. (NotAM); **SI,** Feb, Je (Woodr,Not); **LI:** Jamaica, *Nic* (Not); Wyandanch, Oct (Not).

2235 **S. fuscatus** Dej. L. Tear, Jl, Windsor, Je, Van Cort. Pk. (Not).

2236 **S. humidus** Ham. "NY" (Lg Cat.).

2238 **S. conjunctus** Say. Generally distributed throughout the State, Ap–Sep.

2243 **S. scitulus** Csy. Keene Val., May–Je, Westfield, May (Not).

TACHISTODES Casey

2245 **T. indistinctus** Dej. Olcott, Ap, Je (Dt); E. Aurora, May (Dnd); NYC (Schaupp); **SI** (Lg).

2246 **T. testaceus** Dej. **SI,** Je (Lg); **LI:** Rockaway Beach, Je, *Shoe*, May, *Nic* (Not).

2247 **T. pauperculus** Dej. Keene Val., Mt. Skylight, Cliff Mt., Canadice, Lowville, Oakfield, Nichols, Tivoli, May–Jl (Not); St. Lawrence Co, *Houghton*; Buffalo (Z&R); Batavia (Lg); Ithaca, Jl (Lg); Charlotte, Je, *Zab* (Not); White Plains, May (Sq); Suffern (AM); **SI** (Lg); **LI:** Jamaica, Yaphank, *Nic* (Not).

2248 **T. humilis** Dej. "NY" (Not,Lg); Batavia, Jl, *Kngt* (Not).

—— **T. obscurus** Csy. NY, type locality (Lg).

—— **T. convergens** Csy. NY, type locality (Lg).

2249 **T. partiarius** Say. Syracuse, May (H); Monroe Co (M&W); Buffalo (Z&R); Olcott, Ap, Je (Dt); Taughannock Gorge, Jl (Lg); Albany, Nassau, May (NYS); West Pt. (Robn); West Farms (AM); **SI,** Ap, Je (L&D); **LI:** Jamaica, Rockaway Beach, Bellport, May–Je, *Nic* (Not); Far Rockaway, May (Woodr); Coney I. (Lg).

AGONODERUS Dejean

2251 **A. lineola** Fab. Rochester (M&W); Buffalo (Z&R); Peekskill, May (Lg); West Pt. (Robn); Mosholu, Je (NotAM); High Bridge (AM); NYC (Schaupp, Woodr); **SI** (Lg); **LI:** Jamaica, Bellport, Je–Jl, *Nic* (Not); E. Hampton, Jl (Woodr).

2254 **A. infuscatus** Dej. "NY" (Lec); E. Aurora, Jl (Dnd).

2256 **A. pallipes** Fab. St. Lawrence Co, *Houghton*; Axton, Je, Monroe Co (M&W); western NY, common (Dnd); Olcott, Feb–Jl (Dt); Castile, *Brad* (Flet); Six Mile Cr., Ap (Morr); McLean, Aug, *Dt* (Vdyk); Ithaca, Je–Jl (Vdyk, Dt); Taughannock Gorge, Sep (Vdyk); Renwick, Ap, *Dt* (Vdyk); Newport, Nassau, Albany, Ap–Je (NYS); Windsor, Je (Not); New Baltimore, Nyack, *Zab* (AM); Orange Co, Ap (Morr); Durlandville, Je, *FrostSW* (Dt); West Pt. (Robn); Stony Pt., Je (AM); Mosholu, Je (Not); Bronxville, Mar–Ap (Woodr); Bronx Pk., Ap–May, Sep, *Shoe* (AM); **SI**, Feb–Jl (Woodr,Lg); **LI**: Brooklyn, Ap–May, Sep, *Shoe* (AM); Flatbush, May–Sep, *Zab* (AM); Orient, *Lath* (NYS); Forest Pk., Bergen Beach, May–Je (NotAM); Bellport, Jamaica, Jl, Sep, *Nic* (Not).

2261 **A. comma** Fab. Generally distributed throughout the State, May–Oct.

2263 **A. gracilitarsis** Csy. "NY" (Csy).

FAMILY **OMOPHRONIDAE**

OMOPHRON Latreille

2282 **O. labiatum** Fab. **SI**, May, *Shoe*; **LI**: Coney I., *Lg*; Rockaway Beach, Sep, *Shoe*. Confined to the extreme southern part of the State. Lives in sandy soil near water; dislodged by day by pouring water over the soil; active on the surface at night.

2284 **O. americanum** Dej. The most common species. Keene, Jl, *Not*; Lowville, Je (Not); Manlius (VdykCU); Sylvan Beach, Je, Sodus Pt., Je (Not); Monroe Co (M&W); Buffalo (Z&R); E. Aurora, Je (Dnd); Pike, Jl (NYS,AM); Oakfield, Je, Westfield, May, Canisteo, Je, Nichols, May (Not); Inlet Val., May, Jl (Dt,Wendelkin); Taughannock Falls, Jl (Dt, Wendelkin); Ithaca, Ap–May, *div.* (Vdyk,MacG–CU,NYS); Schoharie, Jl, Ft. Hunter, May–Je (Not); Albany (Lint); Washington Co, Je, *Lg*; L. Waccabuc, Aug (NotAM); Peekskill, May, *Sherm* (VdykCU); Nyack, Je, White Plains, May, *Brownell* (Lg); **SI**: May–Je, Aug, *Lg* (Ds–NYS, AM); Bulls Head, Sep (Woodr); **LI**: Brooklyn, May, *Shoe*; Canarsie, Ap–May (Not); Coney I., Rockaway, May–Oct (Schaupp). On sandy banks of brooks and pools.

2287 **O. tessellatum** Say. Sylvan Beach, Je (Not); Buffalo (Z&R); E. Aurora, Je (Dnd); Nichols, May (Not); Inlet Val., Jl (Dt, Wendelkin); Schoharie, Je (Not); **SI**, *Lg* (Ds); **LI**: Edgemere, May (Woodr); Coney I., Rockaway, May–Oct (Schaupp). Not common. Ecology same as in *labiatum*.

FAMILY **HALIPLIDAE**

HALIPLUS Latreille

2299 **H. fasciatus** Aubé. Warren Co (Sherm); Syracuse (H); Olcott (Dt); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Washington Co, *Lg* (Sherm); Hessian L., Bear Mt. (Sherm); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); Esopus, *Sherm* (Mat); Tomkins Cove (Rbts); NYC (NotAM); **SI** (L&D); **LI**: Cypress Hills, *Zab* (NotAM). Ap–Sep.

2300 **H. connexus** Mat. Warren Co (Sherm); Fish Cr., Oneida Co (Dt); Buffalo, *Dnd* (Mat); Ithaca, Taughannock Gorge, Ringwood (Mat); Washington Co, Je (Lg, Sherm); Esopus (Sherm). Je–Aug.

2301 **H. triopsis** Say. Sodus Pt., May (Not); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Ithaca, Ringwood (Mat, Dt); Washington Co (Lg, Sherm); W. Hebron, Je (Ds); Wingdale (Sherm); Peekskill (Sherm); Esopus (Sherm); West Pt. (Robn); White Plains (Sq); Hessian L., Bear Mt (Sherm); NYC (L&B); **SI** (NotAM). May–Oct.

2303 **H. leopardus** Rbts. Olcott (Dt); Washington Co (Sherm); Catskills (Nic); Esopus (Sherm); Peekskill (Sherm); Hessian L., Bear Mt. (Sherm); White Plains (Sq); NYC (Rbts).

2305 **H. cribrarius** Lec. Warren Co (Sherm); Syracuse, in cedar and sphagnum bog (H); E. Aurora, *Dnd* (Mat); Ithaca, Ringwood, McLean (Mat, Dt); Catskills (Sherm).

2306 **H. subguttatus** Rbts. Recorded from Tyngsboro, Mass., by Roberts, but undoubtedly occurs in NY collections mixed with the preceding species (Mat).

2317 **H. borealis** Lec. Mooers, Oct (Not); **SI**, Oct 9 (L&D).

2318 **H. ruficollis** DeG. Probably common all over North America (Mat); Syracuse, in cedar bog, as *immaculicollis*, *Harr* (H); Sodus Pt., May–Je (Not); Olcott (Dt); Buffalo, E. Aurora, E. Concord, *Dnd* (Mat); Oakfield, Je (Not); Ithaca (Mat); McLean (Dt); Oneida Co (Dt); Esopus (Sherm); Peekskill, Chatham (Sherm); West Pt. (Robn); White Plains (Sq); Bronx Pk. (Lg); **SI** (L&D); **LI:** Astoria; Flatbush (AM); Cypress Hills (AM); Fishers I. (AM). May–Oct.

2319 **H. blanchardi** Rbts. Syracuse, in sphagnum bog (H); **SI** (Robts, L&D). May–Je.

2322 **H. longulus** Lec. Pike (NYS); Buffalo (Rein); Grand I., E. Concord, *Dnd* (Mat); Batavia (Kngt); Ithaca (Mat); Ringwood (Dt); Karner (NYS); Washington Co (Sherm); Peekskill (Sherm); West Pt. (Robn); **SI** (AM). May–Oct.

PELTODYTES Regimbart

2324 **P. tortulosus** Robts. Buffalo, Jl 20, 1918, *Dnd* (Mat).

2328 **P. muticus** Lec. Sodus Pt., Je (Not); E. Aurora, E. Concord, *Dnd* (Mat); Murray Br., Oneida Co (Dt); Syracuse, in cedar bog (H); Colden (Mat); Ithaca (Mat); Esopus (Rbts); West Pt. (Robn); White Plains (Sq); NYC and vic (AM); **SI**, Sep, *Sherm* (L&D); **LI:** Flushing (Mat). May–Oct.

2331 **P. shermani** Robts. White Plains (Sq); NYC and vic (Robts); **SI**, May–Sep, types (L&D).

2332 **P. pedunculatus** Blatch. Ithaca (Mat).

2335 **P. lengi** Rbts. Hessian L., Bear Mt (Sherm); **SI**, Sep, type (L&D).

2336 **P. duodecimpunctatus** Say. Oneida Co (Dt); Sodus Pt., May–Je (Not); Olcott (Dt); Buffalo (Rein); E. Aurora, *Dnd* (Mat); Castile, *Brad* (Flet); Ithaca (Mat); W. Hebron (AM); Poughkeepsie (Mat); Esopus (AM); West Pt. (Robn); Tomkins Cove, *Zab* (AM); Yonkers (Lg); Bronx Pk. (Lg); **SI**, Ap–May, Sep, *Sherm* (L&D); **LI:** Flushing (Mat); Flatbush, Cypress Hills, Fishers I., *Zab* (AM). Ap–Sep.

2337 **P. edentulus** Lec. Keene Val. (Dt); Pike (Mat); White L., Onondaga Co (H); Sodus Pt., May–Je (Not); Buffalo, *Dnd* (Mat); Colden (Mat); Ithaca, McLean (Mat); Washington Co (Lg); West Pt. (Robn); White Plains (Sq); **SI** (L&D). May–Nov.

FAMILY DYTISCIDAE [30]

SUBFAMILY NOTERINAE

CANTHYDRUS Sharp

2340 **C. puncticollis** Cr. L. Waccabuc (AM); NYC (L&B); **SI,** May (L&D).

2342 **C. gibbulus** Aubé. Westchester Co (ShermCU).

HYDROCANTHUS Say

2346 **H. iricolor** Say. Sodus Pt., Je (Not); Buffalo (AM); Peekskill; White Plains, May 30–Oct 25 (Sq); Esopus, Sep (AM); Van Cort. Pk. (Sherm); NYC (AM); **SI,** Ap–Je, Aug–Sep (L&D); **LI:** Richmond Hill (Sherm); Fishers I., Aug (AM).

SUBFAMILY LACCOPHILINAE

LACCOPHILUS Leach

2351 **L. maculosus** Germ. Keene Val., Jl, Saranac Inn, Jl (NYS); Newport (NYS); Adirondack Lodge, Jl, *Bish* (NYS); Mooers, Sep (Not); Cranberry L., Je 18 (H); Syracuse, Ap–May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Pike (NYS); Castile, *Brad* (Flet); Batavia, Je (Kngt); Caledonia Cr., Livingston Co, Dec (Lec); Westfield, May (Not); Ithaca, Jl–Sep (Sherm–CU); McLean Bogs, *Dt* (NYS); Windsor, Je (Not); Schoharie (Not); Albany, Ap, Karner, Nassau, May (NYS); Peekskill, Aug (ShermCU); Poughkeepsie, Ap (NYS); W. Hebron, Je (Lg); Binghamton, Ap (AM); West Pt (Robn); Nyack, Oct (AM); Esopus (AM); White Plains, Mar 10–Oct 12 (Sq); Tomkins Cove (Lg); Bronx Pk., Aug–Sep (AM); **SI,** Mar–Je (L&D); **LI:** Flatbush, Ap–May, Cypress Hills, May, Fishers I., Aug (AM); Calverton, Sep (Ds).

2353 **L. proximus** Say. E. Aurora, Sep, in ponds, scarce (Dnd); Ithaca, Je–Jl (Dt); Peekskill (Sherm); **SI,** Jan–Ap, Sep, Nov (L&D).

2354 **L. inconspicuus** Fall. Ringwood, May, *Senning* (Flet).

2359 **L. fasciatus** Aubé. Peekskill (Sherm); NYC (AM); **SI,** May, Jl (L&D).

2363 **L. undatus** Aubé. Buffalo (AM); Peekskill (Sherm); Esopus, Sep (Sherm); West Pt. (Robn); NYC (AM); **SI,** Ap–Je, Aug–Oct (L&D).

SUBFAMILY HYDROPORINAE

HYDROVATUS Motschulsky

2367 **H. cuspidatus** Kunze. Sodus Pt., Je (Not); E. Aurora, Aug, in a marshy pool (Dnd); Esopus (Sherm); West Pt. (Robn); Peekskill (Sherm); **SI,** Ap–May, Aug–Sep (L&D).

DESMOPACHRIA Babington

2374 **D. convexa** Aubé. Mooers, Sep (Not); Gloversville, May (NYS); Syracuse, Ap–May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Concord, Erie Co, Aug (Dnd); Castile, *Brad* (Flet); Ithaca, Aug 12, McLean, May 21 (ShermCU); Ringwood, Je–Jl (Dt); Peekskill (Sherm); NYC (L&B); **SI,** Ap–May (L&D); **LI:** Jamaica, May (AM).

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[30] H. C. Fall and John D. Sherman, Jr., have gone over the manuscript for this list and made many corrections. Mr. Sherman has supplied all of his records from his extensive collecting and study of this family in New York.

BIDESSUS Sharp

2385 **B. flavicollis** Lec. Chaumont, Sep (Not); **SI:** Sep 8 (L&D); 1000 specimens of this species were taken in one single haul of the net from the shallow water, close to the shore of the L&D locality, Sep 8, 1900 (Sherm).

2388 **B. pulicarius** Aubé. Ithaca, Oct (Kngt); Hessian L., Aug, Esopus (AM); Bear Mt. L., Peekskill (Sherm); **SI,** May (L&D).

2390 **B. affinis** Say. Newport, May (NYS); Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap–May (H); Sodus Pt., Je (Not); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora, Jl–Aug, common (Dnd); Caledonia Cr., Dec (Lec); McLean, Aug (Dt); Ithaca, Ap, Oct (ShermCU); Cortland Co, Jl–Aug, common (Dnd); Windsor, Je (Not); Oneida Co, Aug, *Clms* (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Bear Mt. L. (Sherm); Esopus, NYC (AM); **SI,** Jl, Sep (L&D); **LI:** Rockaway Beach (AM).

2394 **B. lacustris** Say. Buffalo (Z&R); Batavia, Jl (Kngt); Chautauqua, *Thompson* (Sherm); NYC (L&B); **SI,** Je, Aug (L&D).

2395 **B. fuscatus** Cr. Sodus Pt., Je (Not); E. Aurora, Sep, Nov; Oneida Co, Jl 25, *Clms* (Dt); Ringwood, Je (Dt); Peekskill (ShermCU); **SI,** May, Jl–Aug (L&D). Occurs always in woodland pools (Sherm).

2398 **B. granarius** Aubé. Esopus (Sherm); Peekskill, Jl 21 (ShermCU); **SI,** May, Jl–Aug, Nov (L&D).

2399 **B. suburbanus** Fall. **SI,** Jl (L&D); type locality in woodland pools (Sherm).

CELINA Aubé

2400 **C. angustata** Aubé. NYC (AM); **SI,** May, Jl (L&D).

COELAMBUS Thomson [31]

2407 **C. acaroides** Lec. E. Aurora, Sep, scarce (Dnd).

2403 **C. punctatus** Say (*inaequalis* Fab.). Adirondacks (Fall); Mooers, Sep (Not); Syracuse, May (H); Sodus Pt., Je (Not); Olcott, Je (Dt); Buffalo (Z&R); Westfield, May (Not); Ithaca, May 8 (ShermCU); McLean, May 21 (ShermCU); West Pt. (Robn); Peekskill (Sherm); White Plains, Ap 27–Oct 25 (Sq); near NYC (L&B); **SI,** Ap–May, Aug–Oct (L&D).

2425 **C. laccophilinus** Lec. Mooers, Sep (Not); Ringwood, Je–Jl (Dt); Peekskill, in woodland pools (Sherm); **SI,** Jl–Aug (L&D).

2426 **C. sylvanus** Fall. Peekskill, type locality, in woodland pools (Sherm).

2408 **C. turbidus** Lec. Mooers, Sep (Not); Ringwood, Je (Dt); near NYC (L&B); **SI,** Sep (L&D).

2409 **C. dispar** Lec. (*dissimilis* G. & H.). Westfield, May (Not); McLean, Aug (Dt); Washington Co (AM); Schoharie (Not); Esopus, *Sherm* (Fall); West Farms (AM).

2420 **C. nubilus** Lec. Common and widely distributed from New England to western Texas (Fall). Buffalo (Z&R); E. Aurora, Aug–Sep, frequent in pools and brooks (Dnd); Ithaca (ShermCU); West Pt. (Robn); near NYC (L&B); **SI,** Jan, Oct (L&D).

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[31] The arrangement of species in Coelambus is that of Fall in his paper on *The North American Species of Coelambus,* published in 1919.

2424 **C. impressopunctatus** Schall. Syracuse (H); Buffalo, Aug (Z&R, Dnd); E. Aurora, Aug (Dnd); Sodus Pt., May–Je, and Westfield, May (Not); Ithaca, Sep (Dt); NYC (AM); **SI,** Mar–Ap, Jl (L&D).

HYDROPORUS Clairville [32]

2444 **H. mellitus** Lec. Peekskill (AM); Esopus, in running brooks, *Sherm* (Fall); **SI,** Aug (L&D).

2440 **H. pulcher** Lec. E. Aurora, Jl, in brooks, scarce (Dnd); Chautauqua (Lg); Esopus, Aug, in running brooks (Sherm); White Plains, Oct (Sq); **SI,** Jl–Aug (L&D).

2437 **H. wickhami** Zaitz. (*concinnus* Lec.). E Aurora, Jl–Aug, common in brooks (Dnd); Chautauqua (Fall); Sodus Pt., Je, Westfield, May (Not); Ithaca, Sep (Fall,Dt); near NYC (L&B).

2441 2448 **H. oppositus** Say (*integer* Shp.). Livingston Co, Dec (Lec); Ithaca, Oct 15 (ShermCU); Catskills (Fall); Esopus, Sep, *Sherm* (AM); Washington Co, Aug (AM); **SI,** Sep (AM).

2473 **H. vitiosus** Lec. Mooers, Sep, *Not* (Fall); Ithaca, Jl, Sep (Fall,Dt); Washington Co., *Sherm* (Fall); **SI,** Je–Jl (L&D).

2442 **H. shermani** Fall. **SI,** type locality (L&D).

2474 **H. blanchardi** Sherm. (*vitiosus* Shp.). Peekskill, in running brooks, *Sherm* (Fall); **SI** (Fall).

2471 **H. striatopunctatus** Melsh. Ithaca, Oct 15 (ShermCU); West Pt. (Robn); Esopus, in running brooks, *Sherm* (Fall); NYC, Aug (AM); **SI,** May, Jl–Aug (L&D).

2460 **H. sulcipennis** Fall. Peekskill, in running brooks, *Sherm* (Fall).

2458 **H. spurius** Lec. Buffalo (Z&R); Oneida Co, Jl 25, *Clms* (Dt); West Pt. (Robn); Esopus, Sep, in running brooks (Sherm); **LI:** Yaphank (Ds).

2459 **H. dilatatus** Fall. Esopus, in running brooks, *Sherm* (Fall).

2449 **H. lobatus** Sharp. **SI,** May, Jl–Aug (L&D).

2447 **H. undulatus** Say. Generally distributed (Sherm). Newport, May (NYS); Syracuse, Ap–May (Wallis); Oneida Co, Je, *Clms* (Dt); Castile, *Brad* (Flet); Ithaca, Jl–Aug, *Sherm* (Fall, Dt); McLean Bogs (Fall, Dt); Esopus, *Sherm* (Fall); West Pt. (Robn); Peekskill (Fall); White Plains, May 3–Oct 13 (Sq); Van Cort. Pk., Bronx Pk., Aug (AM); **SI,** Feb, Ap, Je–Oct (L&D); **LI:** Cypress Hills, Je, Fishers I., Aug (AM); Calverton, Sep (Ds).

2454 **H. consimilis** Lec. Westport, Aug (NYS); Mooers, Sep (Not); Warren Co, *Sherm* (Fall); Sodus Pt., *Not* (Fall); Buffalo (Z&R), Jl, in marsh, scarce (Dnd); Ithaca, Oct (Kngt).

2457 2464 **H. carolinus** Fall (*proximus* Aubé). Cranberry L., Je–Jl (H); Washington Co, *Sherm* (Fall); Warren Co, *Sherm* (Fall); Westchester Co (ShermCU).

2452 **H. clypealis** Shp. Ithaca, Oct 9–10 (ShermCU); McLean Bogs, Aug (Fall, Dt); Washington Co (Sherm); Esopus, Sep (AM); Peekskill, *Sherm* (Fall); **SI,** Jl–Sep (L&D).

2463 **H. mixtus** Lec. ?Avon, Jan (Cls); Ithaca, Oct, McLean, May 21 (ShermCU); NYC (L&B); **SI,** Aug (L&D). Fall writes, "I have not recognized this form from New York, but these records may be all right."

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[32] The arrangement of species in Hydroporus is that of Fall in his paper on *A Revision of the North American Species of Hydroporus and Agaporus,* published in 1923.

2466 **H. sericeus** Lec. Buffalo (Z&R). Possibly a misidentification (Fall).

2467 **H. solitarius** Shp. Ithaca, Oct 5 (ShermCU); Esopus (Sherm); Wingdale (Sherm); **LI**: Wading R., May, *Nic* (Lg).

2461 **H. hybridus** Aubé. "NY" (AubéANSP). Fall writes, "I doubt this somewhat."

—— **H. deflatus** Fall. **SI**, *Sherm* (Fall).

—— **H. paugus** Fall. Warren Co; Peekskill; Esopus; Wingdale; **SI**. All *Sherm* (Fall).

2523 **H. oblitus** Aubé. Peekskill (L&B); **SI** (L&D).

2521 **H. stagnalis** G. & H. Cranberry L., Je (H); Peekskill, Jl (ShermCU); NYC (L&B); **SI**, Jl (L&D).

—— **H. filiolus** Fall. McLean Bogs, Aug (Fall, Dt); Peekskill, *Sherm* (Fall).

—— **H. aequus** Fall. Peekskill, Kaaterskill, *Sherm* (Fall).

—— **H. rufiplanulus** Fall. Rock City, types, *Ds* (Fall); Peekskill, *Sherm* (Fall).

2510 **H. dichrous** Melsh. Syracuse, May (H); Buffalo (Z&R); Ithaca, Jl, Sep (Fall, Dt); Esopus, Sep (AM); NYC (L&B); **SI**, May, Jl–Aug (L&D).

2524 **H. brevicornis** Fall. Peekskill, *Sherm* (Fall); **SI**, *Sherm* (Fall).

2505 **H. americanus** Aubé. Newport, Pike, Je (Yg); Ithaca, Aug, Karner, Jl (NYS); Peekskill (L&B); NYC (L&B); **SI**, May–Jl, Sep (L&D).

2506 **H. dentellus** Fall. Ithaca, Je–Jl (Fall, Dt).

2516 **H. ruficeps** Shp. **SI**, Jl–Aug (L&D).

2514 **H. niger** Say (*modestus* Aubé). Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap–May (H); Sodus Pt., Je (Not); Buffalo (Z&R); Ithaca, Jl, Sep (Fall, Dt); McLean, Oct 21 (ShermCU); Windsor, Je (Not); Washington Co, W. Hebron, Peekskill, Sep (AM); White Plains, Mar 10–Oct 20 (Sq); Kaaterskill, *Sherm* (Fall); **SI**, Jan, Ap–May, Jl–Oct (L&D); **LI**: Cypress Hills (AM).

2495 **H. despectus** Shp. Ithaca, Je–Jl (Fall, Dt); **SI** (AM).

2493 **H. tenebrosus** Lec. Mooers, Sep (Not); Syracuse, May (H).

2490 **H. melanocephalus** Gyll. (*morio* Shp.). Mooers, Sodus Pt., May (Not).

2508 **H. signatus** Mann. not Shp. (*inornatus* Shp.). Syracuse, Ap–May (Wallis); Buffalo (Z&R); Ithaca, Je, McLean Bogs, Aug (Fall, Dt); West Pt. (Robn); Peekskill (L&B); Wingdale (Fall); **SI**, Feb, May–Jl, Sep (L&D); **LI** (Fall).

2509 **H. fuscipennis** Kies. Syracuse, Ap (Wallis). (Fall gives the author of this species as Schaum.)

—— **H. striola** Gyll. Cranberry L., Je (H); Syracuse, Ap–May (H); Ithaca, Jl (Fall, Dt), as *vitulus* Er.

2502 **H. striola** var. **subtonsus** Lec. Peekskill (AM); **SI** (Sherm).

2501 **H. tristis** Payk. Widely distributed (Sherm). Pike, Ap (NYS); Peekskill (Sherm); NYC (L&B); **SI**, Jl (L&D).

2430 **H. (Deronectes) griseostriatus** DeG. var. **catascopium** Say. Pike, Je
2429 (NYS); Buffalo (Z&R); McLean, Oct 21, Ithaca (ShermCU); W. Hebron, Je (Lg); Peekskill, *Sherm* (L&B); NYC (AM); **SI**, May, Oct (L&D).

2428 **H. (Deronectes) depressus** Fab. (*rotundatus* Lec.). "NY" (Fab); Buffalo (Z&R); W. Hebron, Je, in running water (Sherm, Lg).

2483 **H. (Oreodytes) septentrionalis** Gyll. Westfield, May (Not); Catskills, in running water, *Sherm* (Fall).

AGAPORUS Zimmerman

2531 **A. difformis** Lec. (*Hydroporus*). Buffalo (Z&R); Peekskill, May–Sep (Sherm); White Plains, Ap (Sq); **SI,** Ap–Je (Sherm). Occurs in woodland pools, among rotted leaves, and is very sluggish in its movements (Sherm).

2532 **A. conoideus** Lec. Ringwood, Jl, *Senning* (Flet).

SUBFAMILY COLYMBETINAE

AGABUS Leach [33]

2548 **A. semivittatus** Lec. E. Aurora, Jl–Aug, in brooks (Dnd); Westfield, May (Not); Ithaca, Ap–May, Jl (ShermCU); Schoharie (Not).

2546 **A. stagninus** Say. "NY" (AM); Clarence, Erie Co, Aug, one specimen (Dnd); Batavia, Je (Kngt).

2543 **A. obtusatus** Say. Newport (NYS); Chautauqua, *Thompson* (Sherm); Westfield, May (Not); Peekskill, Jl, in springs (ShermCU); White Plains, Ap 13–Sep 13 (Sq); near NYC (L&B); Spuyten Duyvil (Sherm); **SI** (L&D).

2544 **A. planatus** Shp. **SI,** *Rbts* (Fall).

2539 **A. seriatus** Say. Newport, May (NYS); Manlius, Mar (ShermCU); E. Aurora, May–Jl, in brooks, scarce (Dnd); Buffalo (Z&R); Ithaca, Aug 5 (ShermCU); Gloversville, Ap (NYS); Peekskill, *Sherm* (L&B); **SI,** Ap–Aug (L&D).

2550 **A. punctatus** Melsh. NYC (AM); **SI,** Ap–Je, Aug (L&D); **LI,** *L&D* (Sherm).

2551 **A. punctulatus** Aubé (*aeneolus* Cr.). Pike, May 20 (Fall, Frost); Buffalo (Z&R); McLean, Jl (Dt); Cortland Co, May 21 (ShermCU); Washington Co, Je (AM); W. Hebron (Sherm).

2553 **A. semipunctatus** Kby. (*stridulator* Shp.). Buffalo (Z&R); Cortland Co, Jl, in pasture pools (Dnd); Peekskill, in woodland pools (Sherm); NYC (AM); **SI** (Sherm).

2556 **A. taeniolatus** Harr. Buffalo (Z&R); NYC (AM); **SI** (L&D).

2557 **A. disintegratus** Cr. E. Aurora, Sep, one in large pond (Dnd); Ithaca, Ap 21 (ShermCU); McLean Bogs, Aug (Dt); West Pt. (Robn); Peekskill (AM); NYC, Oct (AM); **SI,** May, Jl, Dec (L&D); **LI:** Forest Pk., *Shoe* (Sherm).

2562 **A. ambiguus** Say (*reticulatus* Aubé, *fimbriatus* Lec.). Cranberry L., Je (H); Mooers, Sep (Not); Syracuse, Ap–May (H); Buffalo (Z&R); E. Aurora, Sep, in ponds, scarce (Dnd); Ithaca, Oct 6 (ShermCU); McLean, Aug, Ringwood, Je–Jl (Dt); Warren, Sep (ShermCU); Peekskill (Sherm); White Plains, Ap (Sq); **SI,** Ap, Jl (L&D).

2572 **A. erythropterus** Say. Newport (NYS); Cranberry L., Je (H); Ithaca (ShermCU); West Pt. (Robn); Peekskill (Sherm); White Plains, Oct 25 (Sq); NYC (L&B); **SI** (L&D).

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[33] The arrangement of species in Agabus follows Fall's paper on *A Review of the North American Species of Agabus,* published in 1922, and differs considerably from that in the Leng catalog.

2564 **A. discolor** Harr. Warren Co, *Sherm* (Fall); Cranberry L., Je (H); Buffalo, Jl 10, *MCV* (Fall); Washington Co, *Sherm* (Fall); W. Hebron (Lg).

2563 **A. confinis** Gyll. "NY" (Gyll); Washington Co, Aug (ShermCU).

2575 **A. anthracinus** Mann. Cranberry L., Je (H); White Plains, Sep (Sq).

2579 **A. nigroaeneus** Er. Ringwood, Je (Dt).

2580 **A. gagates** Aubé. Newport, Je (Yg); Cranberry L., Je–Jl (H); Ilion (NYS); Pike (NYS); E. Aurora, Jl, one in pond (Dnd); Chautauqua, *Thompson* (Sherm); Ithaca, Jl 30 (ShermCU); McLean, Aug, Ringwood, Jl (Dt); Esopus, Sep (AM); Poughkeepsie, May (NYS); West Pt. (Robn); Peekskill, in spring holes (Sherm); White Plains, Ap 20–Oct 4 (Sq); NYC (L&B); **SI**, Je–Aug (L&D).

ILYBIOSOMA Crotch

2587 **I. bifarius** Kby. Buffalo (Z&R); Waterville, Je (Not); Karner, Ap (NYS); **LI**: Forest Pk., May (Sherm).

ILYBIUS Erichson

2590 **I. pleuriticus** Lec. Cranberry L., Je (H).

2593 **I. quadrimaculatus** Aubé. Peekskill (L&B). This determination should be verified (Fall).

2594 **I. ignarus** Lec. Peekskill, Jl 26, in a woodland pool (Sherm); **SI** (Sherm).

2595 **I. angustior** Gyll. Cranberry L., Je (H).

2598 **I. biguttulus** Germ. Keene Val., Jl (NYS); Saranac Inn, Jl (NYS); Newport, Je (Yg); Cranberry L., Je–Aug (H); Mooers, Sep (Not); Buffalo (Z&R); Pike (NYS); E. Aurora, Aug–Sep, frequent in ponds (Dnd); Oneida Co, Jl 11, *Clms* (Dt); Ithaca, Je–Aug (ShermCU); Ringwood, Jl 7 (Vdyk); Windsor, Je (Not); W. Hebron, Je (Lg); Albany, Je (Yg); Wingdale (Sherm); Kaaterskill (Sherm); Peekskill (Sherm); White Plains, May 11–Nov 11 (Sq); near NYC (L&B); **SI**, Feb, May–Oct (L&D).

2600 **I. confusus** Aubé. Sodus Pt., Je (Not); Ithaca, May 4 (ShermCU); Valley Falls, May (NYS); Esopus, Sep (Sherm); Kaaterskill (Sherm); Bear Mt. L., Jl (Sherm); White Plains, Je 6–Jl 11 (Sq); NYC (AM); **SI**, Jl (L&D).

2601 **I. oblitus** Shp. Cranberry L. (H); Buffalo, Je, Esopus, Sep (AM); White Plains, Sep–Oct (Sq).

AGABETES Crotch

2602 **A. acuductus** Harr. Ausable Pt., Sep 23 (Not); Warren Co (Sherm); Buffalo (Z&R); Ringwood, Je (Dt); West Pt. (Robn); Peekskill, May–Je (ShermCU); White Plains, Mar 30–May 3 (Sq); **SI**, May–Jl, Sep (L&D); **LI**: Forest Pk. (Sherm). Usually in woodland pools (Sherm).

MATUS Aubé

2603 **M. bicarinatus** Say. Warren Co, Aug (Sherm); Nassau, Ap (NYS); West Pt. (Robn); Peekskill, May, Jl, Sep (ShermCU); White Plains, Mar 12–Nov 11 (Sq); near NYC (L&B); **SI**, May (AM); **LI**:

Orient, Jl (NYS). Usually in woodland pools, and has been taken in various localities in very moist and damp mossy places in the woods where there is usually very little water, this species being a crawler rather than a swimmer (Sherm).

COPELATUS Erichson

2605 **C. glyphicus** Say. Syracuse, Ap (H); Cazenovia Cr., E. Aurora, Sep (Dnd); Waterville, Je (Not); Westfield, May (Not); Ithaca, Jl 24 (ShermCU); McLean, Jl (Dt); Karner, Mar (NYS); Esopus, Sep (Sherm); West Pt. (Robn); Peekskill (Sherm); **SI,** Ap–May, Aug (L&D); **LI:** E. New York, Je (Ds). Under stones, logs, etc., on muddy shores of river at Peekskill and Esopus, between tide lines (Sherm).

COPTOTOMUS Say

2610 **C. interrogatus** Fab. Keene Val., Jl (NYS); Cranberry L., May 15 (H); Syracuse, Ap (H); Olcott, Jl (Dt); Batavia, Jl (Kngt); Buffalo (Z&R); E. Aurora, Jl, Sep, common in ponds (Dnd); Castile, *Brad* (Flet); Avon, Jan (Cls); Canandaigua, Jl (NYS); Ithaca, Ap, Oct (ShermCU); Karner, Jl (NYS); W. Hebron, Je (Lg); Esopus, Sep (AM); West Pt. (Robn); Peekskill (Sherm); Bear Mt. (Sherm); White Plains, Mar 12–Nov 11 (Sq); near NYC (L&B); **SI,** Ap, Je–Oct (L&D); **LI:** Forest Pk. (Sherm).

SCUTOPTERUS Crotch [34]

2612 **S. angustatus** Lec. Adirondacks, *Not* (Sherm).

RHANTUS Lacordaire

2616 **R. binotatus** Harr. Keene Val., Jl (NYS); Newport, May (Yg); Cranberry L., Je (H); Sodus Pt., Je (Not); E. Aurora in Cazenovia Cr., one, Sep (Dnd); Buffalo (Z&R); Westfield, May (Not); Ithaca, Aug–Sep, Ringwood, Je (Dt); Albany, May, Karner, Jl (Yg); Delmar, May (NYS); Esopus, Sep, *Sherm* (AM); White Plains, Mar 4–Oct 2 (Sq); NYC (AM); **SI,** Ap (L&D).

2619 **R. calidus** Fab. Occurs in N. and S. Am. from Me. (Peak I.) to Brazil (Sherm). Peekskill, Aug (Sherm); near NYC (L&B); **SI,** May (L&D); **LI:** Rockaway Beach (AM).

2620 **R. sinuatus** Lec. Peekskill (Sherm); **SI** (Sherm); **LI** (Sherm).

2623 **R. bistriatus** Bergst. E. Concord, Aug, one in a weedy pond (Dnd); Ithaca, Sep (Dt); Wingdale (Sherm); White Plains, Sep (Sq).

2624 **R. tostus** Lec. Pike, Ap (NYS); Ithaca, Jl 12 (ShermCU); Karner, Ap (NYS); **LI:** Forest Pk. (Sherm).

COLYMBETES Clairville

2632 **C. sculptilis** Harr. Ogdensburg, Je (NYS); Gloversville, May (NYS); Oswego, Je, *Bks* (NYS); Syracuse, Ap (H); Pike (NYS); Buffalo (Z&R), Je (Dnd); E. Aurora, Je–Sep, common in ponds (Dnd); Avon,

[34] The species of this genus live in sphagnum pools in the deep forests of the North (L. Superior, White Mts., Adirondacks, and Hudson Bay), and fly considerable distances but are very sluggish in the water (Sherm).

Nov–Dec, Geneva, Mar (Cls); Ithaca, Ap–May, Jl–Aug, Oct (ShermCU); Albany, Karner, Je (NYS); Hermitage, Jl (Mat); White Plains, Mar 30–Oct 11 (Sq); NYC (AM); **SI,** Ap–Je (L&D); **LI** (Sherm).

SUBFAMILY **DYTISCINAE**

DYTISCUS Linnaeus

2636 **D. fasciventris** Say. Oswego, Oct, *Bks* (NYS); Buffalo (Z&R); E. Aurora, Sep, in ponds, scarce (Dnd); Avon, Dec (Cls); Batavia, Jl (Kngt); Canandaigua L., Jl 11 (ShermCU); Canandaigua (NYS); Ithaca, Je–Aug (ShermCU); Utica, Nov (LintNYS); Washington Co (Sherm); Albany, Oct (LintNYS); Chatham, Nov (NYS); West Pt. (Robn); Peekskill (Sherm); White Plains, Oct (Sq); NYC (L&B); **SI,** Ap, Je, Nov (L&D); **LI:** Orient Pt. (NYS); Astoria (AM).

2637 **D. hybridus** Aubé. Keene Val., Nov (Not); Oswego, Oct, *Bks* (NYS); Olcott, Jl (Dt); Buffalo (Z&R); Pike (Sherm); Niagara R., May (Dnd); Canandaigua, Jl (NYS); Orchard Pk., Jl (NYS); Ithaca, Jl–Aug, Oct (ShermCU); McLean, Oct 21 (ShermCU); West Pt. (Robn); White Plains, Mar 19–Sep 6 (Sq); NYC (L&B); **SI,** Jl, Sep–Oct (L&D).

2638 **D. verticalis** Say. Keene Val., Saranac Inn, Jl (NYS); Gloversville, Sep (NYS); E. Aurora, Buffalo, Aug, frequent (Dnd); Pike (NYS); Canandaigua L., Jl (NYS); Ithaca, Jl–Aug, Oct (ShermCU); McLean Bogs, Aug (Vdyk); Albany, Aug, Nassau, Jl (NYS); Esopus, Peekskill (Sherm); West Pt. (Robn); White Plains, Oct (ShermCU); Van Cort. Pk., Aug (ShermCU); NYC (L&B); **SI,** Mar–May, Jl (L&D); **LI:** Forest Pk. (Sherm).

2641 **D. marginalis** L. Avon, Dec (Cls); Canandaigua, Jl, Pike, Ap (NYS); Ithaca, Sep (Dt); Pittstown, Je (ShermNYS).

2645 **D. dauricus** Gebl. Ithaca, Aug 28 (ShermCU).

2646 **D. harrisii** Kby. Adirondacks, Sep (Eng); Wells, Aug (NYS); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora, Jl, in ponds, scarce (Dnd); Aurora, Ap, *Bish* (NYS); Johnsburg, Sep (NYS); Caledonia Cr., Dec (Lec); Geneva, Jl (LintNYS); Ithaca, Jl, Oct (ShermCU); McLean, Oct 21 (ShermCU); Hadley, Feb (NYS); Utica, May, Chatham, Nov (NYS); East Branch, Aug, *Ds* (Ang); Saratoga Sps., Oct (LintNYS); **LI:** Forest Pk. (Eng).

SUBFAMILY **HYDATICINAE**

HYDATICUS Leach

2647 **H. stagnalis** Fab. Buffalo (Z&R); Ithaca, Mar, Aug (Dt); New Salem, Ap, *Bish* (NYS); Karner, Jl (NYS); Peekskill, Sep (Sherm); White Plains, Ap (Sq); near NYC (L&B); **SI,** Ap–May (L&D).

2648 **H. laevipennis** Thom. Syracuse, May (H).

2649 **H. piceus** Lec. Ithaca, Sep (Dt); West Pt. (Robn); Peekskill (Sherm); White Plains, Ap 22–May 20 (Sq); Van Cort. Pk., Oct (Lg); **SI.** Ap, Je, Aug, Oct (L&D).

2650 **H. bimarginatus** Say. Near NYC (L&B); **SI,** Je (L&D).

ACILIUS Leach

2651 **A. fraternus** Harr. (*semisulcatus* Aubé, acc. Sherman). Mt. Marcy, Keene
2652 Val., Saranac Inn, Jl (NYS); Wilmington, Aug (Dt); Cranberry L. (H); Pike, Ap (NYS); Syracuse, May (H); Sodus Pt., Je (Not); Batavia, Je (Kngt); E. Aurora, Buffalo, Je, Sep, common in ponds (Dnd); Canandaigua L., Jl (NYS); Livingston Co, Dec (Lec); Geneva, Avon, Dec (Cls); Westfield, May (Not); Ithaca, Sep (Dt), Oct (Sherm); McLean, Aug (Dt); Karner, May (NYS); Esopus, Sep (AM); West Pt. (Robn); Peekskill (Sherm); White Plains, Jl–Nov (Sq); **SI**, Ap–May, Oct–Nov (L&D).

2653 **A. mediatus** Say. Ithaca, Aug 28 (ShermCU); Peekskill, Sep (Sherm); **SI**, Ap–Aug (L&D).

THERMONECTES Crotch

2654 **T. ornaticollis** Aubé. Ithaca, Jl 18, *Stedman* (ShermCU); NYC (L&B).

2655 **T. basilaris** Harr. Buffalo (Z&R); Canandaigua L., Jl (NYS); Ithaca, Sep (Dt); Karner, May (NYS); Peekskill (Sherm); White Plains, Oct (Sq); NYC (AM); Van Cort. Pk. (SI Mus); **SI**, Ap–May, Jl–Oct (L&D); **LI**: Brooklyn, May (Ds).

GRAPHODERES Thomson

2659 **G. liberus** Say. Syracuse, May (H); Buffalo (Z&R); Ithaca (ShermCU); McLean, Aug (Dt); Oneida, Je 29, *Clms* (Dt); Peekskill (Sherm); White Plains, Mar 12–Oct 15 (Sq); NYC (L&B); **SI**, Ap–May, Aug (L&D); **LI**: Forest Pk. (Sherm).

2660 **G. cinereus** L. Ithaca (Dt); McLean, Aug (Dt); West Pt. (Robn); NYC (L&B); **SI**, Ap, Je, Aug (L&D); **LI**: Astoria (AM).

SUBFAMILY CYBISTERINAE

CYBISTER Curtis

2667 **C. fimbriolatus** Say. Oswego Co, Je, *Bks* (NYS); Ithaca, Aug–Sep (ShermCU); West Pt. (Robn); White Plains, Sep 2 (Sq); Van Cort. Pk. (SI Mus); NYC (L&B); **SI**, May, Aug (L&D); **LI**: Orient Pt. (NYS).

FAMILY GYRINIDAE [35]

DINEUTES MacLeay

2671 **D. vittatus** Germ. Ithaca (AM); Poughkeepsie (NYS); White Plains, Je–Oct (Ang, Sq); Putnam Co, May (Lg); Nyack, Oct (AM); Van Cort. Pk., May (Lg); **SI**, Ap–Oct (L&D); **LI**: Yaphank (Ang).

2674 **D. discolor** Aubé. Mooers, Sep (Not); Oneida Co, *Clms* (Dt); Avon, Geneva (Cls); Ithaca (Dt); L. George, Aug (AM); Windsor, Je (Not); Schoharie, May–Je (Dt); Albany, Poughkeepsie (NYS); White Plains, Je (Sq); NYC and vic. (AM); **SI** (L&D); **LI**: Cypress Hills, Babylon, May–Je (AM).

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[35] H. C. Fall has kindly read the manuscript for this list, and has made some changes in synonymy and added some records.

2679 **D. nigrior** Robts. Ithaca, Sep (Dt); White Plains, May–Oct (Sq); NYC and vic. (AM); **SI** (L&D); **LI:** Astoria (AM); Deep Pond, Wading R., Jl, *Ds* (Fall).

2680 **D. americanus** Say (*assimilis* Kby.). Oneida Co, May–Je, *Clms* (Dt); Buffalo (Z&R); Sodus Pt., Je (Not); E. Aurora, Je, Sep, common (Dnd); Pike (NYS); Castile, *Brad* (Flet); Westfield, May (Not); Ithaca, Sep (Dt); W. Hebron, Rockland L. (Lg); West Pt. (Robn); White Plains, May–Je (Sq); Nyack, West Farms (AM); NYC and vic. (AM); **SI,** Ap–Oct (L&D); **LI:** Flatbush, Coney I., Cypress Hills, May–Sep (AM); Orient, *Lath* (NYS).

2681 **D. horni** Rbts. Axton (MacG); Saranac L. (AM); Sodus Pt., Je (Not); Spencer, Aug (Dt); Ithaca (AM); Peekskill (Pollard); White Plains, May–Aug (Sq); Van Cort. Pk. (AM); **SI,** Ap–Oct (L&D).

2682 **D. emarginatus** Say. Poughkeepsie (NYS); Putnam Co, May (Lg); Peekskill (Pollard); **SI,** May–Oct (L&D).

GYRINUS Geoffroy [35a]

2684 **G. minutus** Fab. (*rockinghamensis* Lec.). Pike (NYS); Catskills, *Pears* (AM).

2685 **G. confinis** Lec. Chaumont R.; Waddington, Ausable Pt. (Fall); Mooers, Sep, Sodus Pt., Je (Not); Buffalo (Z&R).

2686 **G. fraternus** Coup. Sodus Pt., May–Je, Westfield, May (Not); Carmel, Aug, *Sq* (Fall); E. Aurora, May, Sep, scarce (Dnd); West Pt. (Robn); White Plains (Fall, Sq); **SI,** Ap–May (L&D); **LI:** Amagansett, Sep, Riverhead (Fall).

2687 **G. aeneolus** Lec. Rochester (Regimbart); Buffalo (AM); Ithaca, Je (Frost, Vdyk); Esopus; Pine I., Windsor (Fall); West Pt. (Robn); NYC and vic. (NotAM); **SI** (Lg).

2688 **G. limbatus** Say. Not identified by Fall; records are under his *latilimbus* (Lg). Hamilton Co, Sodus Pt., Je, Mooers, Sep, Windsor, Je (Not); Ulster L. (Ds); White Plains (Fall, Sq); **LI:** Rockaway Beach, Je (Ds).

—— **G. latilimbus** Fall. Ithaca (Fall); White Plains, Oct, *Sq* (Fall); Ramapo Mts. in AM as *borealis* (Fall); NYC and vic. (NotAM); **SI,** Oct (Woodr). If *limbatus* Say is the same, it occurs also in western NY.

2689 **G. dichrous** Lec. (*fratellus* Not.). Mooers, May, Windsor, Je (Not); Chaumont R.; Pine I., Je (Lg); White Plains (Fall, Sq); NYC (L&B).

—— **G. fraterculus** Not. (*dichrous* Fall). Mooers, Sep (Not).

2690 **G. elevatus** Lec. **SI** (L&D). Fall gives no localities for this species except Harris Coll. It is possible that specimens heretofore called *elevatus* are *woodruffi* Fall.

2691 **G. ventralis** Kby. Newport, Pike (NYS); Ithaca (Fall); Chaumont R. (Fall); Peekskill (NotAM); White Plains (Fall, Sq); Van Cort. Pk. (AM); NYC and vic. (NotAM); **SI,** Mar–Aug (L&D); **LI:** Riverhead (Fall).

2692 **G. aquiris** Lec. Ausable Pt.; Crown Pt.; Chaumont R.; Westfield, May (Not); Ithaca; Tivoli; White Plains, Sep, *Sq* (Fall); NYC and vic. (AM); **SI** (Fall).

[35a] The sequence of species in Gyrinus is that of Leng's catalog, which differs from the arrangement in Fall's paper in Trans. Am. Ent. Soc. 47:269–306, 1922.

2695 **G. maculiventris** Lec. Mooers, Sep (Not); Buffalo (Z&R); Westfield, May (Not); Ithaca (Fall); McLean, May (Fall).

—— **G. falli** Not. Mooers, Sep (Not).

2696 **G. affinis** Aubé. Mt. Marcy, Keene Val. (Fall); Sodus Pt., May–Je, Westfield, May (Not); Ithaca; West Pt. (Robn); **SI** (L&D).

2699 **G. pernitidus** Lec. Not rare from Me. to N.J. (Fall). West Pt. (Robn); Ramapo Mts. (AM); **SI** (AM); **LI**: Amagansett, Sep (Ds).

2700 **G. analis** Say. Sodus Pt., May–Je (Not); Buffalo (Z&R); E. Aurora, Je, one specimen (Dnd); Ithaca (Fall); Putnam Co (Lg); West Pt. (Robn); Ramapo Mts. (AM); **SI**, May–Aug (L&D).

2705 **G. marinus** Gyll. L. George, Aug (AM); White L., Jl, *Zab* (AM); Nyack, Oct, *Zab* (AM); **SI** (Robts Coll.); **LI**: Flatbush, Ap–May, *Zab* (AM); Fishers I., Aug (AM).

2707 **G. borealis** Aubé. Axton (MacG); Oneida Co, May, Aug, *Clms* (Dt); Ithaca (Fall); West Pt. (Robn); White Plains, Oct, *Sq* (Fall); **SI** (L&D).

2707a **G. borealis** var. **lugens** Lec. (*falli* Not.). The commonest Gyrinus (Fall). Keene Val., Mt. Marcy, Jl, *Not* (Fall); Crown Pt.; Hamilton Co (Ds); Ithaca, McLean, May; Westchester Co; White Plains (Fall,Sq); **SI** (L&D); **LI**: Riverhead.

—— [*G. picipes* Aubé, 2704. Confined to the Pacific district according to Fall. Has been often cited from NY, the specimens possibly being *lugens* Lec.]

—— **G. frosti** Fall. Ithaca (Fall); **SI** (AM) as *gibber* Lec. goes here (Fall); also specimens from White L. (AM), L. George, Nyack, **SI**, and **LI** (Fishers I.), all as *opacus* Sahlb., go here according to Fall.

—— **G. woodruffi** Fall. Willow Br.; **SI**, Je 14, *Woodr*, type (L&D).

—— **G. bifarius** Fall. Waterville, Je, Ithaca (Fall).

—— **G. pugionis** Fall. Chaumont R. (Fall).

FAMILY HYDROPHILIDAE

SUBFAMILY HYDRAENINAE

OCHTHEBIUS Leach

2718 **O. tuberculatus** Lec. Cayuga L. Basin (Rich); **SI**, Jl (L&D).

2726 **O. holmbergi** Mann. Cayuga L. Basin (Rich).

HYDRAENA Kugelann

2729 **H. pennsylvanica** Kies. Mooers, Sep (Not); Oneida Co, Jl 14, *Clms* (Dt); Olcott, Jl (Dt); Cayuga L. Basin (Rich); West Pt. (Robn); **SI** (L&D).

—— **H. angulicollis** Not. Westfield, May (Not).

SUBFAMILY LIMNEBIINAE

LIMNEBIUS Leach

2737 **L. discolor** Csy. Westfield, May (Not); Cayuga L. Basin (Rich).

SUBFAMILY HELOPHORINAE

HELOPHORUS Fabricius

2739 **H. tuberculatus** Gyll. Buffalo (Z&R); **SI,** Jl 19 (L&D).

2740 **H. inquinatus** Mann. Mooers, Sep, Sodus Pt., Je., Schoharie (Not).

2743 **H. lacustris** Lec. Syracuse, Ap, flying (H); Buffalo (Z&R); E. Aurora, Jl–Sep, frequent in brooks (Dnd); Cayuga L. Basin (Rich); NYC (L&B).

2744 **H. obscurus** Lec. **SI,** Je (L&D). According to Winters this should replace *lacustris.*

2745 **H. nitidulus** Lec. E. Aurora, Williamsville, Clarence, Jl–Aug, common (Dnd); Cortland Co, Jl–Aug, common (Dnd).

2746 **H. linearis** Lec. Cranberry L., Je 23 (H); Syracuse, May, in cedar and sphagnum bog (H); E. Aurora, Jl, scarce (Dnd); Cayuga L. Basin (Rich); Ithaca, May–Sep (Dt).

2748 **H. granularis** L. Cayuga L. Basin (Rich).

2749 **H. obsoletesulcatus** Mots. "NY."

2750 **H. lineatus** Say. Newport, Je (NYS); Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap–May, in pond (H); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Schoharie (Not); Ithaca, Jl–Aug (Dt); Albany, Ap (NYS); Karner, May (Yg); West Pt. (Robn); NYC (L&B); **SI,** Jan, May–Je (L&D).

—— **H. viridicollis** Steph. Cayuga L. Basin (Rich).

SUBFAMILY HYDROCHINAE

HYDROCHUS Leach

2754 **H. scabratus** Muls. Cayuga L. Basin (Rich); West Farms (AM); NYC (L&B); **SI,** May, Aug (L&D); **LI** (Muls).

2758 **H. inaequalis** Lec. Cranberry L., Je 23 (H); West Pt. (Robn); NYC (L&B); **SI,** Ap–May, Sep (L&D); **LI:** Cold Sp. Harb., Aug 6 (H).

2759 **H. excavatus** Lec. Mooers, Sep, Sodus Pt., Je (Not); E. Aurora, Sep, frequent in brooks (Dnd); Cayuga L. Basin (Rich).

—— **H. laticollis** Not. Mooers, Sep (Not).

2760 **H. rufipes** Lec. **LI** (Winters).

2761 **H. subcupreus** Rand. Cranberry L., Je 23 (H); Buffalo (Z&R); Pike, Jl (NYS); Caledonia Cr., Dec (Lec); Westfield, May (Not); Albany, May, Kinderhook, Je (NYS); NYC (L&B); **SI,** Ap (L&D); Rockaway Beach (AM); Cypress Hills, May, *Zab* (AM).

2762 **H. granulatus** Blatch. **LI** (Winters).

2764 **H. squamifer** Lec. Mooers, Sep (Not); Buffalo (Z&R); Pike, Jl (AM); Cayuga L. Basin (Rich); McLean, Aug (Dt); **LI** (Lec).

2767 **H. simplex** Lec. Buffalo (Z&R); Washington Co (AM); **SI** (AM).

SUBFAMILY HYDROPHILINAE

BEROSUS Leach

2774 **B. aculeatus** Lec. Mooers, Sep (Not); **SI,** Je 30 (L&D).

2776 **B. pantherinus** Lec. West Pt. (Robn); NYC (L&B).

2777 **B. peregrinus** Hbst. Cranberry L., Je 18 (H); Buffalo (Z&R); Ithaca, Jl, McLean, Aug (Dt); Cayuga L. Basin (Rich); Washington Co (AM); West Pt. (Robn); NYC (L&B); **SI,** Ap–May (L&D); **LI:** Fishers I., Aug (AM).

2781 **B. exiguus** Say. **LI** (Winters).

2782 **B. pallescens** Lec. "NY" (Lec).

2783 **B. infuscatus** Lec. West Pt. (Robn); "NY" (AM).

2784 **B. striatus** Say. Essex Co, Aug (NYS); Cranberry L., Je (H); Syracuse, Ap–May, in cedar and sphagnum bog (H); Mooers, Sep, Sodus Pt., Je (Not); Buffalo (Z&R); E. Aurora, Jl, Sep, frequent (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Aug (NYS); Ringwood, McLean, Jl–Sep (Dt); West Pt. (Robn); White Plains, Ap 9–Sep 2 (Sq); NYC (L&B); **SI,** Ap–Aug (L&D).

HYDROUS Dahl

2789 **H. triangularis** Say. Buffalo, Aug, at light (Dnd, Z&R); Pike, Jl (NYS); Avon, Geneva, Sep (Cls); Cayuga L. Basin (Rich); Ithaca, Jl–Sep (Rich); Albany, Jl (NYS); New Baltimore, *Zab* (AM); West Pt. (Robn); White Plains, Aug 30 (Sq); Port Jervis (Lint); NYC (AM); **SI,** May, Aug–Oct (L&D); **LI:** Cypress Hills, Je (AM); Huntington, Ap (AM); Rockaway, Aug, *Zab* (AM); Babylon, Jl (AM); Flatbush, Ap (AM).

DIBOLOCELUS Regimbart

2792 **D. ovalis** Ziegl. West Pt. (Robn); **SI** (L&D).

HYDROPHILUS DeGeer

2795 **H. obtusatus** Say. Mooers, Sep (Not); Cranberry L., Je 18 (H); Syracuse, Ap–May, in ponds and bogs (H); Olcott, Jl (Dt); Buffalo (Z&R); Pike, Ap (NYS); Castile, *Brad* (Flet); E. Aurora, Jl–Oct, common in pools (Dnd); Avon, Mar (Cls); Cayuga L. Basin (Rich); Ithaca, Aug (Vdyk); Ringwood, Je (Dt, Rich); Hermitage, Jl (Mat); West Pt. (Robn); West Farms, Van Cort. Pk., May (AM); NYC (L&B); **SI,** Mar–Aug, Dec (L&D); **LI:** Babylon, Je (AM); Flatbush, May (AM); Cypress Hills, May, *Zab* (AM); Orient, *Lath* (NYS).

TROPISTERNUS Solier

2797 **T. striolatus** Lec. "NY" (Sharp).

—— **T. blatchleyi** Orych. (*sublaevis* Blatch. not Lec.). Syracuse, May, in sphagnum bog (H).

2805 **T. glaber** Hbst. Mooers, Sep (Not); Pike, Jl (NYS); Olcott, Jl (Dt, Richmond); Buffalo (Z&R); E. Aurora, Jl 9, common (Dnd); Syracuse, May, in sphagnum bog (H); Cattaraugus Co, Jl (Ds); Avon, Dec–Jan, Geneva, Sep (Cls); French's Mill, Je (NYS); Canandaigua L., Jl (NYS); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Jl (Vdyk); Windsor, Je (Not); Albany, Ap (NYS); West Pt. (Robn); White Plains, Mar 30–Nov 2 (Sq); Nyack, Oct, *Zab* (AM); NYC (L&B); **SI,** Je (L&D); **LI:** Babylon, Je (AM); Flatbush, Ap, Oct, *Zab* (AM); Cypress Hills, Sep (AM); Calverton, Sep (Ds); Fishers I., Aug (AM); Orient, *Lath* (NYS).

2806 **T. mixtus** Lec. Essex, Jl (NYS); Cranberry L., Je–Jl (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Ap (Dt); Buffalo, Je–Sep, common (Dnd); E. Aurora (Dnd); Oneida Co, Sep, *Clms* (Dt); Westfield, May (Not); Cayuga L. Basin (Rich); Ithaca, Jl 12 (Vdyk); West Pt. (Robn); White Plains, May 20–Oct 13 (Sq).

2807 **T. lateralis** Fab. Syracuse, Oct, in pond (H); Buffalo (Z&R); E. Aurora, Aug–Sep, common (Dnd); Buffalo (Z&R); Batavia, Jl (Kngt); Cayuga L. Basin (Rich); Ithaca, Aug (NYS); West Pt. (Robn); Tomkins Cove, Aug (AM); White Plains, Mar 21–Oct 13 (Sq); NYC (L&B); Van Cort. Pk., Aug, West Farms (AM); **SI**, Ap–Aug (L&D); **LI**: Flatbush, Ap, Babylon, Je–Jl, Cypress Hills, May, Fishers I., Aug (AM).

—— **T. quadristriatus** Horn. **LI** (Winters).

HYDROBIUS Leach

2808 **H. fuscipes** L. Newport, Je (NYS); Mooers, Sep (Not); Olcott, Ap, Je (Dt); Pike, Ap (NYS); Oneida Co, *Clms* (Dt); Syracuse, Ap–May, in pond and in sphagnum bog (H); Buffalo (Z&R); E. Aurora, Aug, rare (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Ringwood, Je (Dt); Hermitage, Jl (Mat); Albany, Oct (Yg); Karner, May (NYS); White Plains, Jl 26 (Sq); **SI**, May (L&D).

2809 **H. tumidus** Lec. "NY" (Lec).

2810 **H. globosus** Say. Adirondacks, Sep (Eng); Olcott, Mar (Dt); Livingston Co, Dec (Lec); Buffalo (Z&R); Oneida Co, Je–Aug, *Clms* (Dt); Cayuga L. Basin (Rich); Ithaca, Ap (MatCU); McLean, Aug (Dt); Michigan Hollow, May (MatCU); West Pt., Sep (AM); White Plains, Ap, Sep (Sq); Van Cort. Pk., Sep (AM); **SI**, Feb, May–Je (L&D).

2813 **H. tesselatus** Zimm. Hunt's Pt., NYC (L&B).

ANACAENA Thomas

2814 **A. infuscata** Mots. Cranberry L., Je 23 (H); Mooers, Sep (Not); Syracuse, Ap–May, in ponds and bogs (H); Sodus Pt., Je (Not); Olcott, Je–Oct (Dt); Erie Co, Je, Aug, common in brooks (Dnd); Oneida Co, Jl–Sep, *Clms* (Dt); Westfield, May (Not); Cayuga L. Basin (Dt, Rich); Ringwood, McLean, Je–Oct (Dt, Rich).

PARACYMUS Thomas

2817 **P. suturalis** Lec. Peekskill (L&B); West Pt. (Robn).

2818 **P. despectus** Lec. E. Aurora, Aug–Sep, rare (Dnd); Livingston Co, Dec (Lec).

2819 **P. subcupreus** Say. Cranberry L., Je 23 (H); Syracuse, Ap–May, in ponds and bogs (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Je–Oct (Dt); Oneida Co, Je, Aug, *Clms* (Dt); Cayuga L. Basin (Rich); McLean, Ringwood, Je–Oct (Dt, Rich); West Pt. (Robn); **SI**, Feb–Ap (L&D); **LI** (AM).

2825 **P. digestus** Lec. Cranberry L., Je (H); Pike (NYS); Niagara (Lec); Westfield, May (Not); West Pt. (Robn).

CRENITIS Bedel

2827 **C. monticola** Horn. Catskills, *Nic* (Winters).

HELOCHARES Mulsant

2828 **H. maculicollis** Muls. Buffalo (Z&R).

ENOCHRUS Thomson

2834 **E. nebulosus** Say. Syracuse, May, in cedar bog (H); Mooers, Sep, Sodus Pt., Je (Not); Olcott, Jl (Dt, Rich); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Livingston Co, Dec (Lec); Cayuga L. Basin (Rich); Ithaca, Aug, Normanskill, May (NYS); NYC (L&B); **SI**, May (L&D); **LI**: Rockaway Beach (AM).

2835 **E. ochraceus** Melsh. Cranberry L., Je–Jl (H); Mooers, Sep (Not); Syracuse, May, in cedar and sphagnum bogs (H); Sodus Pt., Je (Not); Olcott, Jl–Sep (Dt); Pike, Aug (NYS); E. Aurora, Je–Sep, very common (Dnd); Buffalo (Z&R); Oneida Co, Aug 7, *Clms* (Dt); Cayuga L. Basin (Dt, Rich); Westfield, May (Not); Ithaca, Aug 9 (Vdyk); Ringwood, McLean, Jl–Sep (Dt, Rich); Albany, Aug (NYS); West Pt. (Robn); White Plains, May 3–Sep 2 (Sq); **SI**, Ap–May, Sep (L&D); **LI**: Rockaway Beach, Babylon, Jl (AM).

2836 **E. perplexus** Lec. Newport, Je (Yg); Syracuse, May, in cedar bog (H); Buffalo (Z&R); E. Aurora, Sep, scarce (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); McLean, Jl–Aug (Dt, Rich); Cortland Co, Jl, scarce (Dnd); Windsor, Je (Not); West Pt. (Robn); NYC (L&B); **SI**, Mar–Je, Sep, Dec (L&D); **LI**: Babylon, Cypress Hills, Je, Flatbush, May (AM).

2837 **E. cinctus** Say. Pike, Aug (NYS); Buffalo (Z&R); E. Aurora, May, Sep, scarce (Dnd); Cayuga L. Basin (Rich); Ithaca, Jl–Aug (Vdyk); McLean, Ringwood, Je, Aug (Dt, Rich); Windsor, Je (Not); West Pt. (Robn); White Plains, May 3–Aug 16 (Sq); NYC (L&B); **SI**, May (L&D); **LI**: Cypress Hills, May–Je, Babylon (AM).

2838 **E. consors** Lec. Cayuga L. Basin (Rich); Ithaca, McLean, Je–Jl (Dt, Rich).

2841 **E. hamiltoni** Horn. Cranberry L. (H); Mooers, Sep (Not); Syracuse, May, in cedar bog (H); E. Aurora, Je, Aug, common (Dnd); Sodus Pt., Je (Not); Oneida Co, Aug, *Clms* (Dt); Cayuga L. Basin (Rich); Ithaca, Aug 9 (Vdyk); West Pt. (Robn); NYC (L&B); **SI**, Ap–Je, Aug (L&D); **LI**: Rockaway Beach, Jl, Babylon (AM).

2843 **E. reflexipennis** Zimm. Livingston Co, Dec (Lec); NYC (L&B); **SI**. Ap–May (L&D); **LI**: Babylon (AM).

CYMBIODYTA Bedel

2849 **C. rotunda** Say. West Pt. (Robn).

2850 **C. fimbriata** Melsh. Mooers, Sep (Not); Olcott, Sep (Dt, Rich); Buffalo (Z&R); Pike, Je (AM); E. Aurora, May–Aug, common (Dnd); Westfield, May (Not); Cayuga L. Basin (Rich); Windsor, Je (Not); White L., Jl, *Zab* (AM); West Pt. (Robn); NYC (L&B); **SI**, Mar, May, Aug (L&D); **LI**: Wyandanch, May (Ds).

—— **C. minima** Not. Mooers, Sep (Not).

2851 **C. blanchardi** Horn. Olcott, Jl–Sep (Dt, Rich); E. Aurora, Jl, Sep, common (Dnd); Westfield, May (Not); Oliverea, Sep, *Ds* (Not); Woodland, Oct (Ds); Windsor, Je (Not); Cayuga L. Basin (Rich); Watkins Glen (L&B); Van Cort. Pk. (AM); **LI:** Babylon (AM).

2852 **C. lacustris** Lec. Axton, Je (M&H); Buffalo (Z&R); E. Aurora, Aug, common (Dnd); Cayuga L. Basin (Rich); Cortland Co, Jl, common (Dnd); Schoharie (Not); NYC (L&B); **SI,** Mar (L&D).

—— **C. vindicata** Fall. **SI,** type locality.

HELOCOMBUS Horn

2853 **H. bifidus** Lec. Cranberry L., Jl (H); Mooers, Sep (Not); Buffalo (Z&R); E. Aurora, Jl–Sep, common (Dnd); Cayuga L. Basin (Rich); Ringwood, Je–Jl (Dt, Rich); Cortland Co, Jl–Sep, common (Dnd); West Pt. (Robn); White Plains, Ap 21–May 18 (Sq); NYC (L&B); **SI,** May, Jl (L&D).

LACCOBIUS Erichson

2854 **L. agilis** Rand. Newport, Je (Yg); Syracuse, Ap, on clay bank (H); Mooers, Sep, Sodus Pt, Je (Not); Buffalo (Z&R); E. Aurora, Aug, common (Dnd); Livingston Co, Dec (Lec); Westfield, May (Not); Cayuga L. Basin (Rich); Cortland Co, Jl, common (Dnd); Oneida Co, May, Jl, *Clms* (Dt); Windsor, Je (Not); Schoharie (Not); Suffern (AM); Albany, Je (Yg); NYC (L&B); **SI** (L&D).

CHAETARTHRIA Stephens

2859 **C. atra** Lec. Westfield, May (Not); Cayuga L. Basin (Rich).

SUBFAMILY SPHAERIDIINAE

PHAENONOTUM Sharp

2864 **P. estriatum** Say. NYC (L&B).

SPHAERIDIUM Fabricius

2867 **S. scarabaeoides** L. Axton, Je (M&H); Potsdam, Je–Aug (Houghton); Syracuse, May, on cattle dung (H); E. Aurora, Aug, common in manure (Dnd); Pike, May (NYS); Castile, May, *Brad* (Flet); Cayuga L. Basin (Rich); Ithaca, May (Houghton); Windsor, Je (Not); Catskills, Jl (Pears); West Pt. (Robn); West Farms (Sf); **SI,** May–Je (L&D); **LI:** E. New York, early May (Sf, Ds); Rockaway Beach, Wyandanch (Ds).

2868 **S. bipustulatum** Fab. E. Aurora, Aug–Sep, common in manure (Dnd); Cayuga L. Basin (Rich); West Pt. (Robn); **LI:** Brooklyn, May, *Shoe* (AM); E. New York, May (Sf).

CERCYON Leach

2869 **C. littoralis** Gyll. **SI,** Je 5 (L&D); **LI:** Rockaway (L&B); Long Beach (L&B); Stony Pt., Sep (Winters); Coney I. (Horn).

2873 **C. unipunctatus** L. N. Fair Haven (Rich); McLean, Aug (Dt, Rich); Windsor, Je, Schoharie (Not); Ramapo, Je (Ds).

2875 **C. ocellatus** Say. Sodus Pt., Je, Schoharie (Not); Cayuga L. Basin (Rich); NYC (L&B).

2876 **C. praetextatus** Say. Buffalo (Z&R); Aug, scarce (Dnd); Cayuga L. Basin (Rich); **SI**, Ap–Je (L&D).

2878 ?**C. fulvipennis** Mann. Buffalo (Z&R). Determination doubtful; this is a West Coast species (Lg).

2879 **C. lateralis** Marsh. Syracuse, May, on cattle dung (H)?; **SI**, May 25, *Ds* (L&D).

2880 **C. indistinctus** Horn. Cranberry L., Je 30 (H); Newport, Je, Gloversville, Sep (NYS).

2883 **C. haemorrhoidalis** Fab. Potsdam (Houghton); Cranberry L., Jl (H); Syracuse, May, on cattle dung (H); Buffalo (Z&R); E. Aurora, Cortland Co, Jl–Aug, common (Dnd); Cayuga L. Basin (Rich); West Pt. (Robn); **SI**, May (L&D).

2884 **C. melanocephalus** L. Syracuse, May, on cattle dung (H); E. Aurora, Aug, common (Dnd).

2885 **C. pygmaeus** Illig. Cranberry L., Je 25 (H); Cayuga L. Basin (Rich); **SI**, Je 7 (L&D).

2886 **C. nigriceps** Marsh. Ithaca, Sep (Dt, Rich); NYC (L&B).

2887 **C. convexiusculus** Steph. West Pt. (Robn) as *lugubris*.

2892 **C. navicularis** Zimm. Cayuga L. Basin (Rich); Peekskill (L&B).

2893 **C. analis** Payk. Newport, Je (Yg); Cranberry L., Je–Jl (H); West Pt. (Robn); **SI**, Ap, Je, Dec (L&D).

—— **C. incrematus** Not. Windsor, Je (Not).

—— **C. basillaris** Not. Windsor, Je (Not).

OOSTERNUM Sharp

2894½ **O. pubescens** Lec. NY (Winters).

CRYPTOPLEURUM Mulsant

2899 **C. minutum** Fab. Cranberry L., Je–Jl (H); Newport, May (NYS); Syracuse, Ap, a skeleton (H); Buffalo (Z&R); Cayuga L. Basin (Rich); Windsor, Je (Not); McLean, Aug (Dt, Rich); West Pt. (Robn); **LI** (AM).

FAMILY BRATHINIDAE

BRATHINUS LeConte

2903 **B. nitidus** Lec. Mt. Whiteface, 2000–4000 ft., Aug (CU); Slide Mt. Je, Oliverea, Sep (Ds); Peekskill, May, *Sherm* (AM, CU).

2904 **B. varicornis** Lec. Utica (Lec).

FAMILY SILPHIDAE

NECROPHORUS Fabricius

2911 **N. americanus** Oliv. Gloversville (NYS); West Pt. (Robn); Bronx (AM); NYC; **SI** (L&D); **LI**: E. New York, *Schott*; Yaphank, Sep (BM); Brooklyn, *Shoe*. May–Aug.

2912 **N. sayi** Lap. Wallface Mt.; Cranberry L.; L. Pleasant, Aug; Rochester; Ithaca (Dt); Batavia, Je–Jl (Kngt); Ft. Montgomery; NYC; **SI** (L&D); **LI**: Wyandanch; Babylon (AM); Montauk, beach wash-up, Jl (Ang); Bellport; Brooklyn (Shoe). Ap–Oct. On carrion.

2913 **N. orbicollis** Say. Wilmington (Ds); Cranberry L.; Rochester; Sodus Pt., Je (Not); Olcott (Dt); Buffalo (Z&R); Castile, Jl, *Brad* (Flet); Batavia, Je (Kngt); E. Aurora, Je (Dnd); Pike; Crosby (CU); Ithaca, McLean Bogs (Dt); L. George, *Zab* (AM); West Pt. (Robn); Ft. Montgomery; NYC; **SI** (L&D); **LI**: Bergen I., *Zab* (AM); Cold Sp. Harb.; Bellport; Yaphank, Jl (AM); Brooklyn, May (BM); Riverhead (Ds). May–Aug. On carrion.

2914 **N. marginatus** Fab. Rochester; Avon, Jl (Cls); Ithaca (Dt); Windsor, Je (Not); Kinderhook (CU); White Plains; Westchester Co; West Pt. (Robn); Ft. Montgomery, *Schott*; NYC; **SI** (L&D); **LI**: Aqueduct; Jamaica; Flushing; Long Beach; Flatbush; Bellport; Rockaway Beach; Gardiners I.; Brooklyn, Yaphank (BM).

2918 **N. pustulatus** Hersch. Cranberry L.; Rochester; Olcott; Buffalo; Ithaca; L. Pleasant (AM); NYC; **SI** (L&D); **LI**: Jamaica; Babylon; Riverhead (Ds); Yaphank (Ds); Bellport; Promised Land (BM); Amagansett; Good Ground; Gardiners I.; Orient, *Lath* (NYS). May–Sep.

2919 **N. vespilloides** Hbst. Thousand Isls.; Wallface Mt.; Wilmington; Rochester; Castile, Je, Sep, *Brad* (Flet); Cooks Falls; L. Pleasant (BM); Slide Mt., *Shoe*; Oliverea; **LI**: E. New York, Jl–Sep.

2920 **N. tomentosus** Web. Keene Val. (BM); Cranberry L.; Wilmington (Shoe); Olcott; Honeoye Falls (CU); Buffalo (Z&R); Pike; Castile, *Brad* (Flet); Batavia, Aug (Kngt); Ithaca (Dt); Albany (Lint); West Pt. (Robn); Ft. Montgomery; Yonkers; Peekskill; Nepperhan; Nyack; Mosholu; White Plains (Sq); **SI**, *Pollard* (L&D); **LI**: Cold Sp. Harb.; Bellport; Wyandanch; Huntington; Flatbush (BM). Je–Oct. On carrion.

SILPHA Linnaeus

2922 **S. surinamensis** Fab. Wilmington (Ds); Long L. (Ds); Cranberry L.; Buffalo (Z&R); Batavia, Jl (Kngt); Montour Falls; Ithaca (Dt); Oliverea (Ds); West Pt. (Robn); **SI** (L&D); **LI**: Coney I., Bergen I., Flatbush (AM); Cold Sp. Harb.; Yaphank (BM); Brooklyn, *Dow*; Orient, *Lath* (NYS).

2923 **S. lapponica** Hbst. Axton (M&H); Wilmington (Ds, Shoe); Whiteface Mt. (Shoe); Cranberry L.; Syracuse (BM); Rochester Jct. (CU); Sodus Pt., Je (Not); Buffalo (Z&R); E. Aurora, May–Je (Dnd); Pike (AM); Montour Falls; Ithaca (Dt); **LI** (BM). May–Aug. On carrion.

2926 **S. inaequalis** Fab. Lowville (Ds); Avon (Cls); Sodus Pt., Je (Not); E. Aurora, May–Jl (Dnd); Batavia, Je (Kngt); Castile, *Brad* (Flet); Westfield, May (Not); Ithaca (Dt); Windsor, Je (Not); Halcottsville, New Baltimore (AM); Tuxedo (Ds); West Pt. (Robn); White Plains (Sq); NYC; **SI**, at willow sap (L&D); **LI**: Cold Sp. Harb.; Yaphank (BM); Babylon (AM); Jamaica, Forest Pk. (BM); Brooklyn (Shoe); Rockaway Beach, Center I. (Ds); Queens, *Dow*; Orient, *Lath* (NYS). Mar–Sep.

2927 **S. noveboracensis** Forst. Wilmington (Ds); Cranberry L.; Wanakena, Aug (Drk); Chateaugay L., 2000 ft. (AM); Syracuse; Olcott (Dt); Buffalo (Z&R); Avon (Cls); Castile, *Brad* (Flet); Batavia, Jl (Kngt); E. Aurora, May (Dnd); Montour Falls; Canandaigua (CU); McLean Bogs; Windsor, Je (Not); West Pt. (Robn); New Baltimore, Mosholu (AM); NYC; **SI** (L&D); **LI:** Cold Sp. Harb.; Flushing; Queens, Pinelawn, *Dow*; Massapequa (Ds); Orient, *Lath* (NYS). Mar–Sep. On carrion.

2928 **S. americana** L. Wilmington, Conesus L. (Ds); E. Aurora, May–Jl (Dnd); Cranberry L.; Buffalo (Z&R); Batavia, Je, on dead corn (Kngt); Ithaca; McLean Bogs (Dt); Albany (Lint); Cropseyville (NYS); Peekskill (Sherm); Avon (Cls); Hudson (BM); Sullivan Co (Ds); White Plains (Sq); West Farms (AM); **SI** (L&D); **LI:** Cold Sp. Harb.; Brooklyn (Shoe); Babylon; Montauk (Ds, Ang); Orient, *Lath* (NYS).

2930 **S. opaca** L. Buffalo (Z&R). Probably an error, since the species occurs in Siberia, Hudson Bay territory, and Calif. (Lg).

NECROPHILUS Latreille

2932 **N. pettiti** Horn. Cooks Falls, Sep, *Sue Davis* (H); Allegany Pk., Jl (Dnd).

CHOLEVA Latreille

2947 **C. luridipennis** Mann. Keene Val., Jl (Not).

2950 **C. simplex** Say. Olcott (Dt); Ithaca (Dt); Ludlow, Sep (Thompson); Keene Val., May, Je (Not); White Plains (Ang); **SI**, *Shoe* (L&D). Ap–Je.

2951 **C. basillaris** Say. Keene Val., May, Jl (Not); Newport, on store cheese (Yg); L. Pleasant (AM); Ludlow (Thompson); Mosholu (BM); **SI** (L&D). Feb–Je.

2952 **C. clavicornis** Lec. Keene Val., Jl, Sep (Not); Cranberry L., on decaying fungi; West Pt. (Robn); Mosholu (AM); Spuyten Duyvil, May (Ang); **LI:** Bellport (Nic).

2955 **C. terminans** Lec. Axton (M&H); Cranberry L.; L. Placid (BM); L. Pleasant (AM); Keene Val., May (Not); Olcott (Dt); Ithaca (Dt); Etna; Catskill, Ap (Lg); **SI**, on three occasions in owl pellets (L&D). Mar–Oct. On carrion.

PRIONOCHAETA Horn

2957 **P. opaca** Say. Keene Val., May (Not); Cranberry L., on carrion; L. Pleasant (AM); Olcott (Dt); Batavia, Je (Kngt); Gowanda, May (Dnd); Ithaca, Ringwood (Dt); Cortland Co, Je (Dnd); McLean, May, Je (Flet); Bangall (BM); Peekskill (Sherm); West Pt. (Robn); White Plains; Mosholu (BM); **SI**, *Shoe* (L&D); **LI:** Brooklyn (Shoe); Yaphank (BM). Ap–Sep.

PTOMAPHAGUS Illiger

2958 **P. consobrinus** Lec. Olcott (Dt); Ithaca (CU); West Pt. (Robn); Peekskill (Sherm); Mosholu (BM).

2964 **P. pusio** Lec. Buffalo (Z&R); Ithaca (Dt); West Pt. (Robn).

2965 **P. parasitus** Lec. Syracuse, under a stone, perhaps associated with ants; Olcott (Dt); Buffalo (Z&R); West Pt. (Robn); Peekskill (Sherm); Bronx Pk., *Sf* (AM); Bronxville, in nest of *Formica sericea, Wheel*; **SI** (L&D); **LI**: Jamaica (Shoe); Pinelawn (BM).

2967 **P. brachyderus** Lec. "NY" (Horn); Katonah, *Sherm* (CU); Mosholu (Lg).

COLON Herbst

2970 **C. bidentatum** Sahlb. "NY", *Ulke* (Horn).

2973 **C. dentatum** Lec. Keene Val., Jl (Not).

2976 **C. putum** Horn. Keene Val., Jl (Not).

2977 **C. magnicolle** Mann. Keene Val., May (Not).

2978 **C. pusillum** Horn. Peekskill, Sep, *Sherm* (Sz).

2982 **C. asperatum** Horn. Windsor, Je (Not).

SUBFAMILY ANISOTOMINAE

HYDNOBIUS Schmidt

—— **H. laticeps** Not. Schoharie (Not).

2991 **H. substriatus** Lec. Keene Val., Jl (Not).

2992 **H. latidens** Lec. Keene Val., Je–Jl (Not).

ANISOSTOMA Illiger

2996 **A. alternata** Melsh. West Pt. (Robn); **SI**, Oct (L&D).

2998 **A. valida** Horn. Danby, Je, *AndersonEG* (Dt).

3000 **A. assimilis** Lec. Axton, Je (M&H); Keene Val., Je, Aug (Not); McLean, Je (Flet).

3001 **A. punctatostriata** Kby. Keene Val., May, Jl (Not); Windsor, Je (Not); E. Jewett, Aug (Lg).

3003 **A. collaris** Lec. Keene Val., Jl (Not).

3009 **A. obsoleta** Melsh. Keene Val., Jl (Not).

COLENIS Erichson

3014 **C. impunctata** Lec. Keene Val., Aug, Oct (Not); E. Aurora, *Dnd* (Dt); West Pt. (Robn); Mosholu (BM); **SI** (L&D). May–Je.

CYRTUSA Erichson

3015 **C. picipennis** Lec. Northern NY, *Ulke* (Lec); Keene Val., Jl (Not).

3018 **C. egena** Lec. Keene Val., Jl (Not).

CAINOSTERUM Notman

—— **C. imbricatum** Not. Westfield, May (Not).

LEIODES Latreille

3021 **L. globosa** Lec. Keene Val., Je (Not); Peru (CU); Cranberry L. (H); Olcott (Dt). Je–Sep.

3022 **L. polita** Lec. **SI,** Jl (L&D).

3023 **L. discolor** Melsh. Axton (M&H); Buffalo (Z&R); E. Aurora, Jl (Dnd); Ithaca (Dt); Harrison (AM); **SI,** May–Je (L&D). Je.

3025 **L. obsoleta** Horn. Keene Val., Jl (Not); Sodus Pt., Je (Not); Olcott (Dt); Cortland Co, Je (Dnd); Windsor, Je (Not); **SI** (L&D). Je–Sep.

3026 **L. basalis** Lec. Keene Val., Jl (Not); E. Aurora, Jl (Dnd); Ithaca (Dt); **SI,** on slime mold (L&D); **LI:** Bellport, Babylon (BM). Je–Aug.

3026a **L. basalis** var. **dichroa** Lec. Buffalo (Z&R); Ithaca (Dt). Je.

3027 **L. geminata** Horn. Keene Val., Jl (Not); Cranberry L., Je, under bark (Dt, H); McLean, Je (Flet).

AGATHIDIUM Illiger

3029 **A. oniscoides** Beauv. Cranberry L., from *Acer saccharum* and *Pinus strobus*; Olcott (Dt); Buffalo (Z&R); Harrison, Mosholu (AM); Katonah, Peekskill (Ang); **SI,** common under bark of dead trees, rolled into a ball (L&D); **LI** (BM). May–Sep.

3030 **A. exiguum** Melsh. Axton (M&H); Keene Val., Je–Jl (Not); Olcott, Ithaca (Dt); Peekskill (Sherm); West Pt. (Robn); Mosholu (AM); **SI** (L&D); **LI** (BM). May–Je.

3034 **A. revolvens** Lec. Keene Val., May–Je, Westfield, May (Not).

3043 **A. pulchrum** Lec. Keene Val., Jl (Not).

3044 **A. difforme** Lec. Cranberry L., Jl 6; Keene Val., Jl (Not).

AGLYPTINUS Cockerell

3045 **A. laevis** Lec. Olcott, Sep 10, Oct (Dt).

FAMILY CLAMBIDAE

CLAMBUS Fischer

3047 **C. gibbulus** Lec. Keene Val., May (Not).

3048 **C. puberulus** Lec. Keene Val., May (Not).

FAMILY SCYDMAENIDAE

SUBFAMILY SCYDMAENINAE

EUCONNUS Thomson

3058 **E. ventralis** Csy. "NY" (Csy).

3059 **E. clavipes** Say. Peekskill, *Sherm* (AM); vic. NYC (AM); **LI:** Ap 16–May 2, *Shoe* (Nic); Jamaica, May 15 (Pears); Coney I., *Schott* (Nic).

3060 **E. consobrinus** Lec. "NY" (Lec); Ithaca, Mar (Lg).

3061 **E. semiruber** Csy. Sylvan Beach, Je (Not).

3063 **E. bicolor** Lec. Buffalo (Z&R); Peekskill (Sherm); **LI:** Ap 9–19, *Shoe* (Nic); Jamaica, *Sf*, *Dow*, *Pears* (Nic).

3064 **E. cavipennis** Csy. NY, *SmHH* (Csy).

3065 **E. occultus** Csy. Westfield, May (Not).

3067 **E. nigrescens** Csy. "NY" (Csy).

3068 **E. affinis** Csy. **LI:** Wyandanch, Ap 3, under pine bark (Nic).

3069 **E. gratus** Csy. Keene Val., Jl, Whitehall, Oct (Not).

3073 **E. salinator** Lec. **SI,** Mar, on salt meadows (L&D); **LI:** common in salt marshes; in early spring found along edge of snow; usually taken under boards and stones during May–Je (Nic); Brooklyn, *Dow* (Ds); Flatbush (Ds); Bellport, Je, Jamaica (BM).

3074 **E. haedillus** Csy. Keene Val., Je, Jl (Not).

3075 **E. fatuus** Lec. Keene Val., Je (Not); Schoharie (Not).

PYCNOPHUS Casey

3080 **P. rasus** Lec. Buffalo (Z&R); Mosholu (BM); **SI,** Mar–Ap (L&D); **LI:** Farmingdale, Ap, *Eng* (Nic).

CONNOPHRON Casey

3085 **C. longipenne** Csy. **LI:** Yaphank (Not).

3087 **C. formale** Csy. **LI:** Yaphank (Not).

3090 **C. flavitarse** Lec. "NY" (Lec); **LI:** Rosedale, Ap, Wyandanch (Not).

3099 **C. fossiger** Lec. Buffalo (Z&R); **LI:** Jamaica, *Pears*, *Dow* (Nic); Huntington, Je 18, *Schott* (Nic); Flatbush, Ap 15, *Schott* (Nic); Wyandanch, Ap 30, *Dow*, *Shoe* (Nic); Brooklyn (Ds); Yaphank, May, Newtown, Ap (BM).

3101 **C. brevicorne** Say. **LI:** Wyandanch, Ap 3, Oct 30, not rare in sphagnum bog (Shoe, Nic).

3106 **C. clavicorne** Csy. Peekskill (Sherm); Westchester Co, *Dow* (Ds); Mosholu, Sep (BM).

3107 **C. abducens** Csy. Tivoli, May (Not).

3109 **C. laetulum** Csy. Hudson R. Val., *SmHH* (Csy).

3115 **C. frontale** Csy. Mosholu, Sep (BM); **SI,** Nov (L&D); **LI:** Jamaica, May 15, *Pears* (Nic).

3130 **C. castaneum** Csy. Keene Val., Je, Jl (Not).

3136 **C. parcum** Csy. Croton L., Ap (Not).

3139 **C. biceps** Csy. **LI:** Wyandanch, Ap 3, under pine bark (Nic).

3142 **C. trinifer** Csy. "NY" (Csy); **LI:** Jamaica, *Pears* (Nic).

3145 **C. fulvum** Lec. "NY" (Csy); Westfield, May (Not).

3150 **C. capillosulum** Lec. Mosholu, Sep (BM); **LI:** Huntington, Je 18, *Schott* (Nic); Yaphank, Ap (BM).

3153 **C. lynceum** Csy. "NY", *SmHH* (Csy).

3155 **C. politum** Say. **LI:** Wyandanch, Oct (Not).

3165 **C. pumilum** Csy. Hudson R. Val. (Csy).

SCYDMAENUS Latreille

3168 **S. perforatus** Schaum. Johnstown, Ap (NYS); Ithaca, Nov, *Bish* (NYS); Windsor, Je (Not); Westchester Co, May, *Dow* (Ds); Van Cort. Pk. (BM); **SI**, common, sifting leaves, Ap, *Woodr, Nic* (L&D); **LI:** Jamaica, May 11, *Pears* (Nic).

3171 **S. cribrarius** Lec. Keene Val., Jl (Not).

3172 **S. turbatus** Csy. Keene Val., Parkers in Lewis Co, Je (Not).

3183 **S. corpusculum** Csy. Ramapo (Sf).

3184 **S. caducus** Csy. Westfield, May (Not).

OPRESUS Casey

3188 **O. othonus** Csy. Bronx Pk., Je (Sf).

CEPHENNIUM Müller and Kunze

3194 **C. corporosum** Lec. Near NYC (Csy); Bronx Pk., Mar, *Sf* (AM); Van Cort. Pk. (Nic).

CHEVROLATIA Duval

3208 **C. amoena** Lec. Vic. NYC (Lec).

ACHOLEROPS Casey

3222 **A. zimmermanni** Schaum. Sodus Pt., Je (Not); **LI:** Yaphank, Sep (BM).

FAMILY ORTHOPERIDAE

(*Corylophidae*)

BATHONA Casey

3229 **B. sphaericula** Csy. Mooers, Sep (Not); **LI:** Yaphank, Je (Not).

CORYLOPHODES Matthews

3230 **C. marginicollis** Lec. Peekskill (LgAM); **SI,** Mar (L&D); **LI:** Yaphank, Je (Not).

GRONEVUS Casey

3234 **G. sticticus** Csy. Mooers, Sep (Not).

3236 **G. truncatus** Lec. NY, under stones (Csy).

RYPOBIUS LeConte

3239 **R. marinus** Lec. **SI,** Mar 18, Ap 30, in salt meadow (L&D); **LI:** Rockaway Beach (LgAM); Coney I. (Lec).

ORTHOPERUS Stephens

3244 **O. glaber** Lec. Buffalo (Z&R); Canastota, Mar 13, *J. C. Faure* (Kngt); **SI,** Je (L&D).

3245 **O. suturalis** Lec. Newport (NYS).

6476a **O. scutellaris** Lec. var. **piceus** Csy. NY, type locality. Axton, Je (M&H), as *scutellaris*, belongs here (Lg). The reference in Lg Cat. to Sphaeriidae is erroneous.

SERICODERUS Stephens

3252 **S. lateralis** Gyll. (*flavidus* Lec.). Buffalo (Z&R); Keene Val., Jl (Not).
3253 **S. obscurus** Lec. Buffalo (Z&R); Keene Val., May (Not).

SACIUM LeConte

3258 **S. lugubre** Lec. Keene Val., Sep (Not).

MOLAMBA Casey

3265 **M. biguttata** Lec. "NY" (Csy); West Pt. (Robn).
3266 **M. lunata** Lec. Newport (NYS); Keene Val., Sep (Not); Cranberry L., Je–Jl (H); Buffalo (Z&R); **SI**, ex Rbts Coll. (L&D); **LI:** Central Pk., Ap (Eng).
3268 **M. lepida** Lec. Vic. NYC (AM).
3269 **M. ornata** Csy. Pike, Ap (NYS); Niverville, May, *Leon* (NYS).
3271 **M. fasciata** Say. Buffalo (Z&R); vic. NYC (AM); **SI,** Je (Chitt).

FAMILY STAPHYLINIDAE [36]

SUBFAMILY MICROPEPLINAE

MICROPEPLUS Latreille

3290 **M. tesserulus** Curtis. Keene Val., Je (Not).

SUBFAMILY OXYTELINAE

Tribe PIESTINI

SIAGONIUM Kirby

3298 **S. americanum** Melsh. Newport, 1898 (NYS).
3299 **S. punctatum** Lec. Cranberry L., Jl–Aug (H); Fourth L., Je (NYS).

TRIGA Fauvel

3305 **T. picipennis** Lec. Keene Val., Jl, Westfield (Not); Delmar, May (NYS); Peekskill (AM); Normanskill, Ap (NYS); West Pt. (Robn); **SI,** Ap–May, under bark of beech log (L&D); **LI:** Queens, Ap, *Shoe* (Sf).

ELEUSIS Castelnau

3307 **E. pallida** Lec. "NY" (Horn); Windsor, Je (Not); Nichols, May (Not).

LISPINUS Erichson

3312 **L. prolixus** Lec. "NY" (Lec).

[36] The list in this family has been gone over critically by Howard Notman and H. C. Fall, and Mr. Notman has made many additions from his extensive collecting and study of this group in the State.

THORACOPHORUS Motschulsky

(*Glyptoma* Erichson)

3315 **T. costalis** Er. Newport, May (NYS); Sodus Pt., Je (Not); Buffalo (Z&R); Westfield (Not); Albany, Nov 3 (NYS); Peekskill (AM); **SI**, Ap 26, under bark (L&D); **LI**: Yaphank, May (Not).

PSEUDOPSIS Newman

3319 **P. sulcata** Newm. Keene Val., Je (Not); Gloversville, Sep (NYS); Westfield (Not); L. Pleasant, *Love* (Sf).

OLISTHAERUS Heer

3321 **O. nitidus** Lec. (*substriatus* Gyll.). Keene Val., Je (Not); Herkimer Co, *Yg* (AM).

PROTEINUS Latreille

3322 **P. atomarius** Er. Westfield (Not).

MEGARTHRUS Stephens

3330 **M. excisus** Lec. Cranberry L., Jl 3, in decaying fungi (H); Gloversville, Sep (NYS).

3331 **M. sinuaticollis** Boisd. Keene Val., Je–Jl (Not).

3332 **M. americanus** Sachse. Peekskill (AM).

Tribe OMALIINI

TRIGONODEMUS LeConte

3335 **T. striatus** Lec. Buffalo (Z&R).

ANTHOBIUM Stephens

3339 **A. convexum** Fauv. Axton, Je (M&H); Keene Val., Je (Not); Cranberry L., Je (H); Newport, May (NYS); Castile, May, *Brad* (Flet); Katonah (Fall).

3344 **A. horni** Fauv. Cranberry L., Je–Aug, extremely abundant on flowers of Acer, Spiraea, Rubus, etc. (H); Red House, Je (Not); Karner, May (NYS).

3347 **A. pothos** Mann. (*dimidiatum* Melsh.). Mt. Marcy, Jl (Not); Fourth L., Je (NYS); Buffalo (Z&R).

3351 **A. orientale** Bnhr. Mt. Marcy, Jl, Keene Val., Je, Red House, Je (Not).

PYCNOGLYPTA Thomson

3355 **P. lurida** Gyll. Keene Val., Je (Not); Cranberry L., Je 28, in sweeping (H).

PHYLLODREPA Thomson

3359 **P. punctiventris** Fauv. **LI**: Orient, Ap (NYS).

3363 **P. florale** Payk. West Pt. (Robn).

OMALIUM Gravenhorst

3379 **O. humerosum** Fauv. Newport, 1898 (NYS); Albany, Je (NYS).
3386 **O. repandum** Er. Peekskill (Fall, Sherm); **LI:** Orient, Nov (NYS).
3387 **O. rivulare** Payk. Sodus Pt., Je, Westfield (Not).

PHLOEONOMUS Heer

3393 **P. lapponicus** Zett. Mt. Marcy, Jl (Not).
3394 **P. pusillus** Grav. Trenton Falls (Hamilton).

OLOPHRUM Erichson

3412 **O. obtectum** Er. Newport (NYS); Keene Val., Sep (Not); Syracuse, May (H); Pike (NYS); Batavia, Jl (Kngt); Maratanza L., Ulster Co, May (NYS); Peekskill (AM); **SI,** in salt meadows (LgAM).
3413 **O. rotundicolle** Sahlb. Buffalo (Z&R); **SI,** Mar–Ap, at border of salt meadow (L&D).

ARPEDIUM Erichson

3420 **A. schwarzi** Fauv. Newport, May (NYS); Washingtonville, Oct (NYS).
3423 **A. brachypterum** Grav. Moss Pond, Mt. Marcy, Jl (Not).

ACIDOTA Mannerheim

3424 **A. crenata** Fab. Cranberry L., Je 28, sweeping in woods (H); **LI:** Rosedale, Ap (Not).
3425 **A. subcarinata** Er. Tivoli, May (Not).

PARALESTEVA Casey

3431 **P. pallipes** Lec. Mt. Marcy, Oct 1 (LgAM); Sodus Pt, Je (Not); Windsor, Je (Not).

MICROEDUS LeConte

3446 **M. austinianus** Lec. Keene Val., Jl (Not).

GEODROMICUS Redtenbacher

3461 **G. brunneus** Say. Buffalo (Say); Howe Cave, May (NYS); Windsor, Je (Not); Peekskill (Fall, Sherm); **SI,** May (L&D).
3462 **G. strictus** Fauv. Sodus Pt., Je, Westfield (Not); McLean, Aug 12 (Flet); **SI** (L&D).
3464 **G. plagiatus** Fab. "NY" (Hamilton); Sodus Pt., May–Je (Not).
G. plagiatus var. **nigritus** Müll. Westfield (Not).

BOREAPHILUS Sahlberg

3474 **B. americanus** Not. **LI:** Rosedale (Not).

RENARDIA Motschulsky

3474½ **R. jubilosa** Mots. "NY" (Lg Cat.).

Tribe **OXYTELINI**

SYNTOMIUM Curtis

3475 **S. confragosum** Makl. Keene Val., Mt. Skylight, Jl (Not).

ANCYROPHORUS Kraatz

3483 **A. planus** Lec. Mt. Marcy, Jl (Not); Washington Co (AM).

TROGOPHLOEUS Mannerheim

3487 **T. corvinus** Csy. Westfield, May (Not).
3496 **T. bilineatus** Steph. (*riparius* Lac.). "NY" (Fauvel in Hamilton).
3498 **T. quadripunctatus** Say. Syracuse, May (H); Sodus Pt., Windsor, Je (Not); **LI:** Brooklyn (Csy).
3500 **T. morio** Er. Syracuse, May (H); Westfield, May (Not); Schoharie (Not); Windsor, Je (Not).
3501 **T. rivularis** Mots. Sodus Pt., Windsor, Je (Not).
—— **T. lacustris** Not. Cranberry L., Je 23 (H). Type.
3514 **T. difficilis** Csy. Sodus Pt., Windsor, Je (Not).
3518 **T. temporalis** Csy. "NY" (Sm).
3520 **T. nanulus** Csy. Cranberry L., Je 23, sweeping in marshy area (H).
3525 **T. subtilis** Er. Sodus Pt., Windsor, Je (Not).
3531 **T. pudicus** Csy. Windsor, Je (Not); **SI**, Je (L&D).
3532 **T. robustulus** Csy. "NY" (Csy).
3537 **T. simplarius** Lec. **LI:** Coney I., in salt marsh (Lec).
3540 **T. convexulus** Lec. "NY" (Lec).
—— **T. volans** Not. Windsor, Je (Not).
—— **T. vespertinus** Not. Windsor, Je (Not).

APOCELLUS Erichson

3556 **A. sphaericollis** Say. Crown Pt., Aug (Not); Mooers, Sep (Not); **SI**, on sidewalk (L&D).

OXYTELUS Gravenhorst

3571 **O. sculptus** Grav. Newport (NYS); Fourth L., Je (NYS); Buffalo (Z&R); Peekskill, Ap–May, *Sherm* (AM); Mosholu (Sf).
3572 **O. insignitus** Grav. Newport, May–Je (NYS); Pike, Sep (NYS); Albany, May; Clinton Hgts., Ap (NYS); Ulster Co, Sep, *Nic* (Sf); West Pt. (Robn); West Farms, NYC, Oct, *Zab* (AM); **SI** (L&D); **LI:** Flatbush, Oct–Nov, *Zab* (AM); Jamaica, *Pears* (Sf); Orient, Ap (NYS).
3574 **O. breviceps** Csy. Newport, May (NYS); Catskills (Csy).
3576 **O. laqueatus** Marsh. Windsor, Je (Not).
3579 **O. invenustus** Csy. Ulster Co, Sep, *Nic* (Sf).
3580 **O. pennsylvanicus** Er. Newport, May (NYS); Fourth L., Je (NYS).

3582 **O. rugosus** Fab. Newport, May (NYS); Westfield, May (Not); Albany, Ap (NYS); Peekskill, Ap, under small stones in gardens (Sherm); Mosholu (Sf).

3587 **O. nitidulus** Grav. "NY" (Hamilton); Windsor, Je (Not).

3589 **O. suspectus** Csy. Albany, May (NYS); Bronx Pk. (Sf).

3592 **O. nanus** Er. NY (Lg Cat.).

3593 **O. exiguus** Er. Newport, 1898 (NYS); Peekskill, Mar, *Sherm* (AM).

3595 **O. tetracarinatus** Block. Windsor, Je (Not).

PLATYSTETHUS Mannerheim

3596 **P. americanus** Er. Keene Val., Je (Not); Cranberry L., Je 25, in decaying fungi (H); Buffalo (Z&R,Horn,Er); Windsor, Je (Not); **SI** (L&D).

BLEDIUS Mannerheim

3599 **B. pallipennis** Say (*mandibularis* Er.). "NY" (Lec); **LI:** Rockaway Beach, *Dietz* (Sf).

3601 **B. brevidens** Lec. "NY" (Lec).

3615 **B. politus** Er. **LI:** Coney I., Jl (Lec).

3622 **B. semiferrugineus** Lec. Sodus Pt., Je (Not); Buffalo (Z&R); Albany, Ap (NYS).

3625 **B. fumatus** Lec. Buffalo (Rein); Peekskill, Mar, *Sherm* (AM).

3636 **B. analis** Lec. Peekskill, *Sherm* (AM).

3637 **B. nitidicollis** Lec. "NY" (Lec).

3643 **B. opacus** Block. "NY" (Fauv).

3651 **B. sinuatus** Lec. Westfield, May (Not).

3656 **B. stabilis** Csy. Schoharie (Not).

3657 **B. confusus** Lec. Syracuse, Ap (H).

3668 **B. tau** Lec. Sodus Pt., Je (Not); Hudson Falls, *Sherm* (Fall).

3676 **B. emarginatus** Say. Windsor, Je, Schoharie (Not); Nassau, Jl (NYS); Hudson Falls, Aug, *Sherm* (AM).

3677 **B. honestus** Csy. Schoharie (Not); Catskills (Csy).

3679 **B. basalis** Lec. **LI:** Coney I., in salt marsh (Lec); Rockaway Beach (AM).

3685 **B. opaculus** Lec. **LI:** Coney I. (Lec).

3686 **B. cordatus** Say. Northampton, Karner, Je (NYS); Hudson Falls, Aug, *Sherm* (AM); **SI:** Sandy Hill, *Lg* (Sf).

—— **B. fracticornis** Payk. Windsor, Je (Not).

—— **B. verticalis** Not. Westfield, May (Not).

THINOBIUS Kiesenwetter

3690 **T. flavicornis** Lec. Oneida L., Aug (Drk); **LI:** Coney I., in salt marsh (Lec).

3691 **T. grossulus** Csy. Near NYC (Csy).

3694 **T. fimbriatus** Lec. Westfield, May (Not).

—— **T. amphibius** Not. Westfield, May (Not).

—— **T. tardus** Not. Westfield, May (Not).
—— **T. grandicollis** Not. Westfield, May (Not).
—— **T. caseyi** Not. Westfield, May (Not).
—— **T. apicicornis** Not. Westfield, May (Not).
3702 **T. delicatulus** Kr. Westfield, May (Not).

SUBFAMILY **STENINAE**

STENUS Latreille

3711 **S. bipunctatus** Er. (*comma* Lec.). Newport, Jl (NYS); Syracuse, May (H); Buffalo (Z&R); Sodus Pt. (Kngt); Waterville, Je, Westfield, May (Not); Windsor, Je (Not); Ithaca, Oct (Kngt); Schoharie (Not); Ft. Hunter, Je (Not); West Pt. (Robn).
—— **S. fulvoguttatus** Not. Windsor, Je (Not).
3712 **S. colon** Say. Keene Hgts., Jl (Not); Buffalo (Z&R); Westfield, May (Not).
3714 **S. semicolon** Lec. Syracuse, Ap (H); Pike, Ap (NYS); Westfield, May (Not).
3718 ?**S. laccophilus** Csy. Syracuse, May (H).
3719 **S. juno** Fab. Keene Val., Keene Hgts., Jl (Not); Newport (NYS); Gloversville, Mar (NYS); Waterville, Jl, Sodus Pt., May (Not); Buffalo (Z&R); Westfield, May, Windsor, Je (Not); Utica, Je, Tivoli, May (Not); **SI,** Feb, *Woodr*, sifting (L&D).
3722 **S. austini** Csy. Mt. Marcy, Jl (Not).
3727 **S. femoratus** Say. Sodus Pt., Je (Not).
3728 **S. similiatus** Blatch. Parkers, Je, Tivoli, May (Not).
3730 **S. strangulatus** Csy. "NY" (Ent. Amer. 1, 74, *see* Csy, Stenini, 1884, 39).
3736 **S. erythropus** Melsh. Rensselaer, May, Kinderhook, Je (NYS); **SI,** Feb, sifting, *Woodr* (L&D).
3737 **S. rugifer** Csy. Keene Hgts., Jl, Ausable Forks, Crown Pt., Aug, Lowville, Je, Sodus Pt., Je, Tivoli, May, Sylvan Beach, Je (Not).
—— **S. edax** Not. Windsor, Je (Not). May not be distinct from *rugifer* Csy. (Not).
3753 **S. placidus** Csy. Johnstown, May (NYS).
3757 **S. militaris** Csy. Westfield, May (Not).
3758 **S. pluto** Csy. "NY", Je, *Sherm* (AM); Ausable Lakes, Jl (Not).
3769 ?**S. nanus** Steph. "NY" (AM).
3776 **S. obstrusus** Csy. "NY" (Csy).
3780 **S. colonus** Er. Cranberry L., Je 23, sweeping (H); Ashland, Aug (Frost); West Pt. (Robn).
3782 **S. humilis** Er. Cranberry L., Jl 5, in dying birch (H).
—— **S. perexilis** Not. Windsor, Sodus Pt., Je (Not).
3787 **S. stygicus** Say. Mooers, Sep (Not); Newport, Johnstown, Aug (NYS); Windsor, Je (Not); Ramapo, Je (Ds); **SI,** Je (L&D).
3788 **S. egenus** Er. Common in Essex, Franklin, St. Lawrence, Lewis, and Oneida Counties, Je–Sep (Not); Cranberry L., Je, sweeping (H); Sodus Pt., Je (Not).
3789 **S. dolosus** Csy. Ausable Lakes, Jl, Ausable Forks, Aug, Crown Pt., Aug, Sodus Pt., Je, Sylvan Beach, Je (Not).

3791 **S. sectilifer** Csy. (*milleporus* Csy.). "NY" (Csy).

3792 **S. vinnulus** Csy. Cranberry L., Je, sweeping (H); Moss Pond, Ausable Lakes, Jl, Sodus Pt., May (Not).

3795 **S. argus** Grav. Keene Val., Mt. Marcy, Sylvan Beach, Je–Jl (Not); **LI:** Yaphank, Mar (Not).

3796 **S. pudicus** Csy. "NY", Je, *Sherm* (AM).

3797 ?**S. minor** Csy. Syracuse, Ap (H).

3799 **S. parallelus** Csy. Newport, 1898 (NYS).

3802 **S. juvencus** Csy. Keene Val., Je (Not).

3809 **S. gratiosus** Csy. Waterville, Je (Not).

3811 **S. curtus** Csy. Waterville, Je (Not).

3832 **S. flavicornis** Er. Newport, May (NYS); Keene Val., Keene Hgts., Ausable Lakes, Jay, Waterville, Sylvan Beach, Lowville, Sodus Pt., Windsor, Je–Aug (Not); Chapel Pond, Je, *Leon* (NYS); Syracuse, Ap–May (H); Bridgeport, Ap–May (H); Buffalo (Z&R); Schoharie (Not); Albany, Karner, Voorheesville, New Baltimore, Poughkeepsie, May–Je (NYS); Whitehall, Oct, Ft. Hunter, Tivoli, May (Not); West Pt (Robn); **SI,** Feb, in sifting, *Woodr* (L&D).

3833 **S. annularis** Er. Keene Val., Je, Mt. Marcy, Jl, Sodus Pt., May (Not); Normanskill, May (NYS); **SI,** May (L&D).

3837 **S. tarsalis** Ljungh. Keene Val., Mt. Marcy, Moss Pond, Ausable Pt., Ft. Hunter, Whitehall, Je–Oct (Not); Cranberry L. (H); Washington Co, Aug, *Sherm* (AM); Rensselaer, May (NYS); Peekskill, Mar (AM); Hudson Falls, *Sherm* (AM).

3838 **S. canadensis** Csy. Newport (NYS); Keene Val., Sylvan Beach, Windsor, Whitehall, Ft. Hunter, Je–Oct (Not).

—— **S. reconditus** Csy. Ashland, Aug (Fall). Fall believes it a good species.

3841 **S. punctatus** Er. Ausable Lakes, Crown Pt., Mt. Marcy, Keene Val., Waterville, Sodus Pt., Windsor, Tivoli, Ft. Hunter, May–Aug (Not); Newport, Je (NYS); Elm L., Aug (NYS); Washington Co, Aug, *Sherm* (AM); Kinderhook, Je, Poughkeepsie, May (NYS); Peekskill (AM); Ramapo, May (Ds); Ashland, Aug (Frost); **SI,** Oct (L&D).

3842 **S. artus** Csy. "NY" (Csy).

3844 **S. callosus** Er. Syracuse, May (H).

3846 **S. arculus** Er. Crown Pt., Keene, Whitehall, Tivoli, May–Aug (Not); Washington Co, Peekskill, Hudson Falls (AM); Kenwood, Jl (NYS); **SI,** Oct (L&D).

3848 **S. hubbardi** Csy. Mt. Marcy, Keene Val., Moss Pond, Ausable Lakes, Mountain View, Ft. Hunter, Tivoli, May–Sep (Not).

—— **S. caenicolus** Not. Mooers, Keene, Keene Hgts., Ausable Forks, Lowville, Sylvan Beach, Waterville, Sodus Pt., Windsor, Rensselaerville, Tivoli, May–Je (Not).

3853 **S. croceatus** Csy. Sodus Pt., Je (Not). **SI,** Feb, in sifting (L&D).

DIANOUS Samouelle

3857 **D. coerulescens** Gyll. Buffalo (Robts); Suffern, May, *Schott* (Not); NYC and vic. (Frost); **SI,** Ap–Nov; clings to boards and stones below falls (L&D).

3858 **D. nitidulus** Lec. Ausable Lakes, Jl (Not); East Bay, Wayne Co, Sep, *Bish* (NYS).

SUBFAMILY **EUAESTHETINAE**

STICTOCRANIUS LeConte

3859 **S. puncticeps** Lec. **SI,** Ap (Sf).

EUAESTHETUS Gravenhorst

3869 **E. robustulus** Csy. **LI:** North Beach, Feb, *Schott* (Sf); New Lots, Cypress Hills, Ap, *Shoe* (Sf).

3872 **E. americanus** Er. Sodus Pt., Windsor, Je (Not); Peekskill (AM); Bronx Pk. (Sf); **SI,** Oct (L&D).

SUBFAMILY **PAEDERINAE**

PINOPHILUS Erichson

3874 **P. latipes** Grav. "NY" (GravANSP).

PALAMINUS Erichson

3891 **P. luteus** Csy. **LI** (Csy).

3892 **P. testaceus** Er. **SI,** May–Je (L&D).

3894 **P. hudsonicus** Csy. **LI** (Csy).

3900 **P. larvalis** Lec. **LI,** under moss (Lec).

GASTROLOBIUM Casey
(*Cryptobium*)

3903 **G. carolinum** Er. "NY" (AM).

3908 **G. bicolor** Grav. Mooers, Sep (Not); Newport, May (NYS); Gloversville, Je (NYS); Pike (NYS); Buffalo (Z&R); Sodus Pt., Je, Westfield, May (Not); Ithaca, May–Oct (DtNYS); Windsor, Je (Not); Schoharie (Not); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI,** May, Jl (L&D).

3909 **G. melanocephalum** Er. "NY" (Csy).

3910 **G. badium** Grav. **SI,** Ap, Je (L&D).

3914 **G. parallelum** Csy. **LI** (Csy).

HESPEROBIUM Casey

3926 **H. pallipes** Grav. Gloversville, Mar–Sep (NYS); Syracuse, Ap, Oct (H); Buffalo (Z&R); Westfield, May (Not); McLean, Ap 17, *Babiy* (Flet); Ithaca, Ap–Sep (Dt); Auburn (H); Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, May (Ds); **SI,** Mar–Ap, Sep, Nov (L&D); **LI:** Orient, Mar 17 (Ds).

3926a **H. pallipes** var. **capito** Csy. Ithaca, May–Oct (Dt).

3927 **H. flavicorne** Lec. "NY" (Csy).

3928 **H. cinctum** Say. "NY" (Csy); Syracuse, Ap (H); **SI,** Feb, in sifting (L&D).

3932 **H. sellatum** Lec. Olcott, Ap (Dt).

3933 **H. cribratum** Lec. Newport, May (NYS); Gloversville, Mar (NYS); Syracuse, Ap (H); Buffalo (Z&R); Ithaca, Mar–Nov (Dt); Windsor, Je (Not); Albany, May (NYS); Rensselaer, May (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); Peekskill, Mar (AM).

PAEDERUS Fabricius

3950 **P. obliteratus** Lec. "NY" along ocean beach (Csy); **LI:** Ap, *Shoe* (Sf); Brooklyn, *Nic* (Sf).

3952 **P. littorarius** Grav. Mooers, Sep (Not); Axton, Je (M&H); Newport (NYS); Cranberry L., Je–Jl, under damp stones (H); Oneida L., Aug (Drk); Syracuse, Ap (H); Sodus Pt., Je (Not); Olcott, Howland I., *Ds* (Dt); Buffalo (Z&R); Pike, Mar (NYS); Castile, *Brad* (Flet); Ithaca, common in early spring (Dt); McLean, Ap, *Babiy*, Je, *Cy* (Flet); Windsor, Je (Not); Karner, Je (NYS); Cedar Hills, Ap (NYS); Nassau, Mar (NYS); Ramapo, May (Ds); West Pt. (Robn); **SI,** Mar, May–Je, Nov (L&D); **LI,** Ap, *Shoe* (Sf).

3954 **P. canonicus** Csy. **LI** (Csy).

CRYPTOBIELLA Casey

3959 **C. pusilla** Lec. **LI:** from the seashore (Lec).

LATHROBIUM Gravenhorst

3964 **L. amplipennis** Csy. (*deceptivum* Csy.). Westfield, May (Not); Ithaca, Ap, Jl (Dt); Hudson Val. (Csy); White Plains, Mar, *Bno* (Sf).

3966 **L. armatum** Say (*procerum* (Csy.). Gloversville, Mar (NYS); Syracuse, Ap (H); Ithaca, May (Dt); McLean, Jl (Dt); Windsor, Je (Not); Delmar, Mar (NYS).

3969 **L. nigrolucens** Csy. Westchester Co, *Dow* (Sf); **LI** (Csy).

3981 **L. simile** Lec. Oneida L., Aug (Drk); Pike, Ap (NYS); Ithaca, Nov (Dt); Clinton Hgts., Oct (NYS); Peekskill, Mar, Jl (AM); Hudson Falls, *Sherm* (AM); near NYC (Csy); **LI,** May, *Shoe* (Sf).

3983 **L. neglectum** Csy. Ringwood, May (Dt).

3990 **L. bicoloratum** Bnhr. Newport, Je (NYS).

3991 **L. puncticolle** Kby. "NYS" (Horn, Kby).

—— **L. lintneri** Not. Westfield, May (Not).

LITOLATHRA Casey

3992 **L. rhodeana** Csy. Near NYC (Csy).

3995 **L. cruralis** Csy. Ithaca, Mar (Dt).

3999 **L. subgracilis** Csy. "NY" (Csy).

4001 **L. suspecta** Csy. Near NYC (Csy).

LATHROBIOMA Casey

4008 **L. othioides** Lec. Windsor, Je (Not).

4009 **L. tenuis** Lec. "NY" (Lec); Windsor, Je (Not); Peekskill, Mar, as *Lathrobium* (AM).

4010 **L. nigrolinea** Csy. Cranberry L., Je 23, under bark of dead log (H).

4012 **L. scolopacea** Csy. Cranberry L., Je 23, under bark of dead log (H).

4013 **L. inops** Csy. "NY" (Sf).

LATHROLEPTA Casey

4014 **L. debilis** Lec. Near NYC (Csy).

TETARTOPEUS Czwalina

4016 **T. punctulatus** Lec. Westfield, May (Not); Gloversville, Mar (NYS); Sodus Pt., Je (Not); Buffalo (Rein); West Pt. (Robn); **SI**, Sep 30, in sifting (L&D); **LI**: Brooklyn, Mar, *Shoe* (Sf).

4022 **T. angularis** Lec. Buffalo (Z&R); Albany, May (NYS); Clinton Hgts., Oct (NYS); **SI**, Jan 19, Ap, in sifting (L&D).

4024a **T. tetricus** Csy. var. **agitans** Csy. Near NYC (Csy).

EULATHROBIUM Casey

4031 **E. grande** Lec. Sodus Pt., Je (Not); Ringwood, McLean, Jl (Dt); Peekskill (AM); **LI**: Cypress Hills, Ap, *Shoe* (Sf).

LATHROTAXIS Casey

4045 **L. longiuscula** Grav. Newport, May (NYS); Gloversville, Ap (NYS); Olcott, Ap–May (Dt); Windsor, Oct (Dt); Westfield, May (Not); Ithaca, Ap–May (Dt); Poughkeepsie, May (NYS); Bronx Pk. (Sf); **LI**: Rockaway Beach, May, *Shoe* (Sf).

LATHROBIELLA Casey

4068 **L. ventralis** Lec. Newport, May (NYS); Nassau, Je, Normanskill, May (NYS).

4074 **L. collaris** Er. Axton, Je (M&H); Newport, May (NYS); Sodus Pt., May (Not); Syracuse, Ap (H); Olcott, Ap, Ithaca, May (Dt); Westfield, May (Not); Windsor, Je (Not); Albany, May, Clinton Hgts., Ap (NYS); West Pt. (Robn); Westchester Co, *Dow* (Sf); NYC, May (NYS); **SI**, May (L&D); **LI**, Ap, *Shoe* (Sf).

4081 **L. fragilis** Csy. Windsor, Je (Not); near NYC (Csy).

4082 **L. rubida** Csy. Westfield, May (Not).

4087 **L. depressula** Csy. Catskills (Csy).

MICROLATHRA Casey

4088 **M. pallidula** Lec. Fourth L., Je, Gloversville, Ap (NYS); Karner, Oct, Normanskill, May (NYS); **SI** (Csy); **LI**: Brownsville, Ap, *Dow* (Sf).

ADEROCHARIS Sharp

4093 **A. corticinus** Grav. Ithaca, Sep (Dt); Schoharie (Not); **SI**, Je (L&D)

LITHOCHARIS Lacordaire

4094 **L. ochracea** Grav. Schoharie (Not); Peekskill, Je (AM).

TRACHYSECTUS Casey

4105 **T. confluentus** Say. Axton, Je (M&H with query); Newport, May, Gloversville, Ap (NYS); Syracuse, Ap (H); Cranberry L., Je, under bark of dead log (H); Pike, Ap (NYS); Sodus Pt., Je, Westfield, May (Not); Karner, Nassau, May, Normanskill, Ap (NYS); West Pt. (Robn); Westchester Co (Ds); **SI**, Ap–May (L&D); **LI**: Queens, Flatbush, Rockaway, Mar (Ds).

TETRAMEDON Casey

4151 **T. rufipenne** Csy. Hudson Val. (Csy).

HYPOMEDON Rey

4173 **H. debilicornis** Woll. NYC, Jan 30 (NYS).

PSEUDOMEDON Rey

4174 **P. thoracicum** Csy. Peekskill, Je, as *obsoletus* Nordm. (AM); **SI**, Jan (L&D).

4174a **P. thoracicum** var. **ruficolle** Csy. "NY" (Csy).

SCOPAEUS Erichson

4207 **S. crassulus** Csy. Sodus Pt., Je (Not).

4210 **S. longipennis** Fall. Sodus Pt., Je (Not).

4215 **S. hudsonicus** Csy. Hudson Val. (Csy).

—— **S. quadriceps** Not. Schoharie (Not); Windsor, Je (Not).

4216 **S. exiguus** Er. Hudson Val. (Csy).

4218 **S. degener** Csy. Hudson Val. (Csy).

4221 **S. delicatus** Csy. "NY" (Csy).

SCOPAEOMA Casey

—— **S. pallida** Not. Westfield, May (Not).

SCOPAEOPSIS Casey

4234 **S. ventralis** Csy. **LI** (Csy).

STILICUS Latreille

4240 **S. latiusculus** Csy. Sodus Pt., Je (Not); **LI**: Flatbush, Mar, Rockaway Beach, *Dow* (S).

4241 **S. rudis** Lec. Westchester Co, May, *Dow* (Sf); Aqueduct, Mar, *Shoe* (Sf); Huntington, Je, *Schott* (Sf).

4243 **S. angularis** Lec. Peekskill, May (AM); **LI:** Bellport, Jl, *Nic* (Sf).
4247 **S. biarmatus** Lec. **LI:** Forest Pk, Ap, *Pears* (Sf).
4247a **S. biarmatus** var. **abbreviellus** Csy. Near NYC (Csy).
4248 **S. dentatus** Say. Westchester Co (Ds); Peekskill (AM); **SI,** Ap (L&D); **LI:** Brooklyn, Flatbush, Feb (Ds).

MEGASTILICUS Casey

4251 **M. formicarius** Csy. West Pt., in ants' nests (Lg).

PACHYSTILICUS Casey

4250 **P. hanhami** Wick. Syracuse, Ap (H).

STAMNODERUS Sharp

4257 **S. monstrosus** Lec. **SI,** Jan 19, Feb, in sifting (L&D).

ASTENUS Stephens

(*Sunius* Erichson)

4260 **A. prolixus** Er. Peekskill, Mar (AM); Westchester Co, May, *Dow* (Sf); **SI,** Mar, Sep (L&D).
4262 **A. americanus** Csy. "NY to Va" (Csy); **LI:** Jamaica, May, *Pears* (Sf).
4263 **A. linearis** Er. Buffalo (Z&R).
4265 **A. binotatus** Say. **SI,** Jan 19, in sifting (L&D).
4266 **A. cinctus** Say. Albany, Ap (NYS).
4270 **A. brevipennis** Aust. Mooers, Sep (Not); **SI,** May (L&D).
4272 **A. discopunctatus** Say. Mooers, Sep (Not); Newport, May–Je (NYS); Syracuse, Montour Falls, Ap (H); Westfield, May (Not); Windsor, Je (Not); Ithaca, Mar, McLean, Jl (Dt); Catskills, *Pears* (Sf); Delmar, May (NYS as *Paederus*); Normanskill, Mar (NYS); **SI,** *Pears* (Sf).
4278 **A. longiusculus** Mann. Buffalo (Z&R); Peekskill (AM); **SI,** Mar–Ap, Nov (L&D).

SUBFAMILY STAPHYLININAE

GAUROPTERUS Thomson

4284 **G. fulgidus** Fab. Peekskill, late Ap–early May (Sherm); West Farms (AM); **LI:** Rockaway, May, *Shoe* (Sf).

NUDOBIUS Thomson

4285 **N. cephalus** Say. Mt. Seward, 4500 ft., Je (M&H); Mt. Whiteface, Aug (Dt); Newport, Wells, May (NYS); Cranberry L., Je–Jl (H); Syracuse, in hickory (B&S); Buffalo (Z&R); Castile, May, *Brad* (Flet); Ithaca, Mar–Oct (Dt); McLean, Sep 20 (Flet); Unadilla, *Nic* (Sf); West Pt. (Robn); **SI,** Ap, Sep (L&D).
4293 **N. luridipennis** Csy. **LI:** Wyandanch, Ap, *Schott* (Sf).

GYROHYPNUS Mannerheim

4296 **G. obsidianus** Melsh. Sodus Pt., Je (Not); Oswego, Sep, *Bks* (NYS); Pike (NYS); Ithaca, Sep (Dt); Pinelawn, *Dow* (Sf); Wyandanch, Oct, *Schott* (Sf).

4302 **G. emmesus** Grav. Newport, May (NYS); Buffalo (Z&R); Karner, Ap (NYS); Peekskill, *Sherm* (AM); **LI:** Little Neck, Ap, *Schott* (Sf).

4304 **G. fusciceps** Lec. "NY" (Csy); Syracuse, Ap (H); Sodus Pt., May, Westfield, May, Windsor, Je (Not).

—— **G. pallipennis** Not. Westfield, May (Not).

4307 **G. melanops** Csy. Windsor, Je (Not).

4308 **G. hamatus** Say (*obscurus* Er). Mooers, Sep (Not); Gloversville, Ap (NYS); Olcott, Ap (Dt); Buffalo (Z&R); Batavia, Sep (Kngt); McLean, Ap 17, *Babiy* (Flet); Peekskill (AM); West Pt. (Robn); **SI**, Sep 15 (L&D); **LI:** Jamaica, May, *Dow* (Sf); Orient, *Lath*, Ap (NYS).

—— **G. davisi** Not. **SI**, on gravestones, Aug 31, Sep 28, type (L&D).

4312 **G. sanguinipennis** Lec. **LI:** Brooklyn, May, *Dow* (Sf).

4313 **G. gilvipennis** Csy. "NY" (Csy); Westchester Co, Mar, *Dow* (Sf).

4314 **G. pusillus** Sachse. Sodus Pt., Je, Westfield, May (Not).

4319 **G. gularis** Lec. Lansingburg, Oct (NYS); West Pt. (Robn).

LEPTACINUS Erichson

4324 **L. cephalicus** Lec. Hudson Val. (Csy).

LEPTACINODES Casey

4325 **L. flaviceps** Lec. Peekskill, *Sherm,* as *batychrus* Gyll. (AM); **LI** (Csy).

STICTOLINUS Casey

4331 **S. scolopaceus** Csy. "NY" (Csy).

NEMATOLINUS Casey

4334 **N. longicollis** Lec. Ithaca, Ap–May (Dt).

LEPTOLINUS Kraatz

4347 **L. rubripennis** Lec. Newport (NYS); Montour Falls, Ap (H).

BAPTOLINUS Kraatz

4351 **B. macrocephalus** Nord. Moss Pond, Wallface Mt., Keene Val., Jl (Not).

4352 **B. americanus** Csy. (*pilicornis* Payk.). Cranberry L., Jl 6–10, under bark of dead stump (H); Sodus Pt., Je (Not); Schoharie (Not); Ulster Co, Sep, *Nic* (Sf).

4355 **B. fraternus** Csy. (*longiceps* Fauv.). "NY" (Fauv).

DIOCHUS Erichson

4356 **D. schaumi** Kr. Peekskill, *Sherm* (AM); **SI,** on salt meadow, Nov 6 (L&D); **LI:** Yaphank, Je (Not).

4358 **D. thoracicus** Csy. **LI** (Csy).

NEOBISNIUS Ganglbauer

4361 **N. sobrinus** Er. Newport, May, Sodus Pt., May–Je, Westfield, May, Windsor, Je (Not); McLean, Aug (Dt); Schoharie (Not); W. Hebron, Je (LgBM).

4362 **N. agnatus** Er. **LI:** Forest Pk., *Pears* (Sf).

4364 **N. paederoides** Lec. Newport (NYS); Sodus Pt., May–Je, Westfield, May, Windsor, Je (Not); Ithaca, May–Nov, McLean, Aug (Dt); Schoharie (Not); Poughkeepsie, Je (NYS); Peekskill, *Sherm* (AM); **LI** (Lec, Sf).

4366 **N. jocosus** Horn. Sodus Pt., Je (Not); Bronx Pk. (Sf).

4367 **N. jucundus** Horn. **LI** (AM).

4369 **N. terminalis** Lec. Mooers, Sep (Not); Newport (NYS); Westfield, May, Windsor, Je (Not); Schoharie (Not); Ithaca, Ap, Jl–Aug (Dt).

—— **N. fulvicornis** Not. Sodus Pt., Je (Not).

ACTOBIUS Fauvel

4372 **A. cinerascens** Grav. Mooers, Sep (Not); Sodus Pt., Je, Westfield, May (Not); Ithaca, Jl (Dt); Peekskill, May (Fall, Sherm); **SI,** Feb, in sifting, *Woodr* (L&D); **LI:** Jamaica, *Dow* (Sf).

4373 **A. nanus** Horn. Sodus Pt., Je (Not); **LI:** Brooklyn, Mar, *Shoe* (Sf).

4374 **A. inutilis** Horn. **SI,** Feb, in sifting, *Woodr* (L&D).

4375 ?**A. fraterculus** Horn. **SI,** Sep 18, in sand about grass roots (L&D).

4379 **A. patella** Horn. "NY" (Horn).

4380 **A. loxatus** Horn. **SI,** *Lg* (Sf).

4383 **A. parcus** Horn. Cranberry L., Jl 3, in decaying fungi (H); **SI,** Oct 27 (L&D); **LI:** Cold Sp. (Sf).

PHILONTHUS Curtis

4384 **P. politus** L. (*aeneus* Rossi). Axton, Je (M&H); Newport, May–Je (Yg); Johnstown, Sep (NYS); Cranberry L., Je–Jl, in decaying fungi (H); Gloversville, May (Yg); Oswego, Aug, *Bks* (NYS); Olcott, May–Je (Dt); Buffalo (Z&R); Interlaken, Ap (NYS); Ithaca, Ap–Sep, McLean, Ap, Aug (Dt); Albany, Aug (Yg); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI,** Je, Aug (L&D); **LI:** Eastern Parkway, *Martin* (Sf); Flatbush, Coney I., Oct–Nov, *Zab* (AM); Center I., May, Amagansett, Aug, Eng (Sf); Orient, Je (NYS).

—— **P. tetragonocephalus** Not. Cranberry L., Je–Jl, in decaying fungi (H).

4385 **P. chalceus** Steph. **LI:** Bellport, *Nic* (Sf); Wyandanch, Ap, *Schott* (Sf).

4387 **P. sericinus** Horn. Cranberry L., Jl 3 (Not, H); Bronx Pk., Ap, *Shoe* (Sf); **LI:** Flatbush, May, *Dow* (Sf).

—— **P. cruentatus** Gmel. Cranberry L., Jl 3–4, in decaying fungi and on carrion (H); Syracuse, Ap–May (H); Westfield, May (Not).

4392 **P. umbratilis** Grav. Ithaca, Nov (Dt); Albany, May (NYS); **LI:** Rockaway Beach, May, *Shoe* (Sf); Wyandanch, Ap, Je, *Schott* (Sf); Orient, Ap, *Lath* (NYS).

4393 **P. laetulus** Say. **SI**, Je (L&D).

4395 **P. asper** Horn. Fourth L., Jl (NYS); West Pt. (Robn); **SI** (L&D); **LI:** Little Neck, Dec, *Schott* (Sf).

4396 **P. fuscipennis** Mann. Olcott, Ap (Dt).

4403 **P. hepaticus** Er. **LI:** Flatbush, Feb, *Schott* (Sf); Flushing, *Dow* (Sf).

4412 **P. umbrinus** Grav. Gloversville, Sep (NYS); West Pt. (Robn); **LI:** Wyandanch, Aug, *Schott* (Ds).

4414 **P. palliatus** Grav. Mooers, Sep (Not); McLean, May, Ithaca, Je (Dt).

4418 **P. quadricollis** Horn. Mooers, Sep (Not); Newport (NYS); Olcott, Je (Dt); Sodus Pt., Je (Not); Pike, May (NYS); McLean, May, Jl (Dt); Windsor, Je (Not).

4420 **P. debilis** Grav. Olcott, Ap (Dt); Ithaca, Sep (Dt); Peekskill, *Sherm* (AM); **SI**, Dec, under weeds in garden (L&D).

4421 **P. varians** Payk. Syracuse, in hickory (B&S); Olcott, May (Dt); **SI**, May, *Woodr* (L&D); **LI:** Bellport, *Nic* (Sf); New Lots, May, *Shoe* (Sf); Flatbush, Jl, *Schott* (Sf).

4422 **P. cervicalis** Csy. "NY" (Csy).

4423 **P. longicornis** Steph. Potsdam (Houghton); Ilion, May (NYS); Gloversville, Ap, Oswego, Sep (NYS); Westfield, May (Not); Albany, May (NYS); West Farms, Van Cort. Pk. (AM); **SI** (L&D).

4424 **P. discoideus** Grav. Peekskill (AM); West Pt. (Robn).

4427 **P. alumnus** Er. "NY" (Horn); Mt. Whiteface, Jl, *Shoe* (Sf).

4427a **P. alumnus** var. **rufulus** Horn. "NY" (Horn).

4430 **P. fusiformis** Melsh. Westfield, May (Not); Ithaca, Mar (Dt); Schoharie (Not); Peekskill, Ap (Fall, Sherm); Van Cort. Pk., Bronx Pk. (AM); **LI:** Rockaway Beach, May, *Shoe* (Sf).

4431 **P. fulvipes** Fab. Mooers, Sep (Not).

4433 **P. schwarzi** Horn. Gloversville, Ap (NYS); Sodus Pt., Je (Not); Olcott, Ap (Dt); Ithaca, Ap (Dt); West Pt. (Robn); **LI:** North Beach, Jan, *Schott* (Sf).

4441 **P. micans** Grav. Newport, May–Je (NYS); Buffalo (Z&R); Ithaca, Mar, Sep–Nov (Dt); McLean, Aug, Ringwood, May (Dt).

4443 **P. lomatus** Er. Mooers, Sep (Not); Newport, May (NYS); Olcott, Feb–Ap, Jl–Sep (Dt); Westfield, May, Windsor, Je (Not); Gloversville, Mar (NYS); Glens Falls, Je (NYS); Pike (NYS); Ithaca, Mar–Ap, Nov, Ringwood, May (Dt); Albany, Ap, Rensselaer, May (NYS); West Pt., Ap, *Robn* (Sf); Peekskill (AM); West Pt., Van Cort. Pk., West Farms (AM); **SI** (L&D).

4444 ?**P. cunctans** Horn. Gloversville, Ap; Westfield, May (Not).

4445 **P. aequalis** Horn. "NY", Mar 28, *Sherm* (AM); West Pt., May, *Robn* (Sf).

4446 **P. brunneus** Grav. Newport, May (NYS); Westfield, May (Not); Oswego, Aug, *Bks* (NYS); McLean, Ap 17, *Babiy* (Flet); West Pt. (Robn); Mosholu (AM); **SI** (L&D); **LI:** Jamaica, Je, *Schott* (Sf); Flatbush, Feb, *Dow* (Sf).

4447 **P. cyanipennis** Fab. Fourth L., Je (NYS); Cranberry L., under bark of dead log (H); Ilion, May (NYS); Sodus Pt., Je (Not); Olcott, Je–Sep (Dt); Buffalo (Z&R); Pike, Jl (NYS); Ithaca, Ringwood, Je–Sep (Dt); McLean, Jl 17 (Dt); L. George, Aug, *Zab* (AM); Catskills, *Pears* (Sf); Poughkeepsie, (NYS); White L., Jl, *Zab* (AM); West Pt. (Robn); Mosholu, Jl (Sf); **SI**, Je–Sep (L&D); **LI**: Flatbush, Nov (AM).

4448 **P. blandus** Grav. Newport, May, Elizabethtown, Aug (NYS); Fulton Chain, Je (NYS); Buffalo (Z&R); Westfield, May, Windsor, Je (Not); Poughkeepsie, Jl (NYS); Peekskill, Harrison (AM); **SI**, Sep (L&D); **LI**: E. New York, May, *Martin* (Sf).

4450 **P. sordidus** Grav. Fourth L., Je (NYS); Southfields, May, *Shoe* (Sf); E. New York, May, *Martin* (Sf).

4452 **P. cephalotes** Grav. Newport, May (NYS); Olcott, May (Dt); **LI**: Wyandanch, Ap, *Schott* (Sf).

4455 **P. ventralis** Grav. Buffalo (Z&R).

4458 **P. fallaciosus** Horn. Sodus Pt., Je, Westfield, May (Not).

4470 **P. nigritulus** Grav. (*aterrimus* Grav.). Buffalo (Z&R); Westfield, May (Not).

4473 **P. microphthalmus** Horn. Newport (NYS); Gloversville, Sep (NYS); Oswego, *Bks* (NYS); Syracuse, in hickory (B&S); Olcott, Ap 10 (Dt); Sodus Pt., Westfield, May (Not); Peekskill, Ramapo Mts. (AM); **LI**: Brooklyn, May, *Dow* (Sf).

4483 **P. validus** Csy. "NY" (Csy).

4488 **P. viridanus** Horn. Mooers, Sep (Not); Schoharie (Not); West Farms (AM); **LI**, *Johnson* (Sf).

4495 **P. vulgatus** Csy. "NY" (Csy).

4497 **P. aurulentus** Horn. Syracuse, Ap (H); Sodus Pt., Je (Not); Olcott, Jl (Dt); Ithaca, Je, Sep, Ringwood, May (Dt); McLean, May, Aug (Dt).

—— **P. strigicollis** Not. Westfield, May (Not).

—— **P. opacipennis** Not. Mooers, Sep (Not).

CAFIUS Stephens

4506 **C. bistriatus** Er. **SI**, Je (L&D).

4509 **C. sericeus** Holme. **LI**: possibly Coney I. (Horn); Rockaway Beach, *Dow* (Sf).

HESPERUS Fauvel

4512 **H. apicalis** Say. Albany, Ap (NYS); West Pt. (Robn); **LI**: Yaphank, Oct, *Eng* (Sf).

4513 **H. baltimorensis** Grav. West Pt. (Robn); Mosholu, May (Ds); **SI**, Ap–May, Sep (L&D); **LI**: Flatbush, Parkville, Ap–May, *Zab* (AM).

BELONUCHUS Nordmann

4514 **B. formosus** Grav. Peekskill, Mar, *Sherm* (AM); West Pt. (Robn); Bronx Pk. (AM); **SI**, Je (L&D).

STAPHYLINUS Linnaeus

4526 **S. badipes** Lec. (*carbonatus* Lec.). Syracuse, May (H); Sodus Pt., May–Je (Not); Olcott, Ap–Sep (Dt); Buffalo (Horn); Castile, May, *Brad* (Flet); Batavia, Je (Kngt); Windsor, Je (Not); Cayuga L., Mar, *Bish* (NYS); Ithaca, Ap (Dt); McLean, Ap 17, *Babiy* (Flet); Schoharie (Not); Suffern, Ap (Sf).

4527 **S. pleuralis** Lec. Buffalo (Z&R). Occurrence in NY doubtful (Fall).

4532 **S. vulpinus** Nordm. Syracuse, Ap (H); Buffalo (Z&R); Westfield, Jl (NYS); Ithaca, Ap (Dt), Sep (NYS); New Salem (NYS); Albany, Medusa, Ap (NYS); West Pt. (Robn); **SI,** May, Oct (L&D); **LI,** Ap, *Eng* (Sf).

4533 **S. maculosus** Grav. Syracuse, May (H); Olcott, May–Je (Dt); Buffalo (Z&R); Ilion, May (NYS); Windsor, Je (Not); Ithaca, Ap–Sep, *Bish* (NYS); McLean, Je (Flet); Albany, Ap–May, Karner, May, Clinton Hgts., Ap (NYS); Schodack Landing, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, West Farms (AM); **SI,** Ap–Sep (L&D); **LI:** Flatbush (AM).

4534 **S. mysticus** Er. Newport, May (NYS); Gloversville, May (NYS); Syracuse, Ap (H); Sodus Pt., Je (Not); Ithaca, Ap–Jl (Dt); Poughkeepsie, May (NYS); West Pt. (Robn); Mosholu, West Farms (AM); **SI,** Ap–Je (L&D); **LI:** Brooklyn, May, *Eng* (Sf).

4537 **S. tomentosus** Grav. Peekskill, Tarrytown, West Farms (AM); **SI,** (L&D).

4543 **S. fossator** Grav. Mt. Whiteface, Aug (Dt); Oswego, May, *Bks* (NYS); Poughkeepsie, Aug (NYS); West Pt. (Robn); Peekskill, Jl, *Sherm* (AM); Mosholu, Jl (Sf); **SI,** Aug (L&D); **LI,** *Eng* (Sf).

4543a **S. fossator** var. **immaculatus** Horn. "NY" (DeKay).

4545 **S. cinnamopterus** Grav. Mooers, Sep (Not); Syracuse, Ap–May (H); Olcott, May–Oct (Dt); Buffalo (Z&R); Batavia, Aug (Kngt); Westfield, Jl (NYS); Castile, *Brad* (Flet); Ithaca, Ap–Sep (Dt); McLean, Jl (Dt); Albany, Je, Coeymans (NYS); Clinton Hgts., Ap (NYS); Catskills, Sep (Ds); West Pt. (Robn); Inwood, Jl, Sep (Ds); **SI,** Je, Jl, Sep (L&D); **LI,** Je, *Eng* (Sf).

4546 **S. violaceus** Grav. Newport (NYS); Olcott, Je–Aug (Dt); Buffalo (Z&R); Batavia, Jl–Aug (Kngt); Pike (NYS); Westfield, May (Not); Ithaca, May, McLean, Jl (Dt); Nassau, May (NYS); West Pt. (Robn); **SI** (L&D); **LI:** Yaphank, May, *Eng* (Sf).

4548 **S. viridanus** Horn. "NY" (Horn).

4549 **S. exulans** Er. Westfield, May (Not); West Pt., Je, *Robn* (Sf).

4550 **S. praelongus** Mann. Tarrytown (AM); **LI:** Rockaway Beach (Sf); Orient Pt., Je, *Lath* (NYS).

OCYPUS Kraatz

4551 **O. ater** Grav. Olcott, Jl–Sep (Dt); Buffalo (Z&R); Ithaca, Jl (NYS); Nassau, Aug (NYS); Hudson Falls, *Sherm* (AM); **SI,** Aug (L&D); **LI:** Rosedale, Oct, Rockaway Beach, Je, Amagansett, *Eng* (Sf).

ONTHOLESTES Ganglbauer

4552 **O. cingulatus** Grav. Keene Val., Je; Axton, Je (M&H); Newport, Je (NYS); Crane Pond, Je, *Bks* (NYS); Cranberry L., Jl, in decaying fungi and on carrion (H); Olcott, May–Je (Dt); Buffalo (Z&R);

Pike (NYS); Windsor, Je (Not); Ithaca, May–Sep (Dt); McLean, Aug–Sep (Flet); Poughkeepsie, Aug (NYS); L. George, Aug, *Zab* (AM); Peekskill (AM); West Pt. (Robn); West Farms, *Angus* (AM); **SI**, May–Oct (L&D); **LI:** Flatbush, Aug, *Zab* (AM).

4553 **O. capitatus** Bland. Newport, May (NYS); Johnstown, Sep (NYS); Buffalo (Z&R); West Farms, *Angus* (AM).

TYMPANOPHORUS Nordmann

4554 **T. puncticollis** Er. **LI:** Rockaway, Je, *Dietz* (Sf).

CREOPHILUS Mannerheim

4555b **C. maxillosus** L. var. **villosus** Grav. Newport, May (NYS); Cranberry L., Je–Jl, on carrion (H); Olcott, May (Dt); Buffalo (Z&R); Montour Falls, Ap, carrion (H); Windsor, Je (Not); Ithaca, Ap–Sep, *Bish* (NYS); Crane Pond, Je, *Bks* (NYS); Interlaken, Ap (NYS); Nassau, Je (NYS); Stamford, Oct, *Bish* (NYS); West Pt. (Robn); **SI**, Ap–Sep (L&D); **LI:** Prospect Pk., Flatbush, Coney I., May–Nov, *Zab* (AM); Orient, *Lath* (NYS).

ACYLOPHORUS Nordmann

4564 **A. flavicollis** Sachse. Ringwood, May (Dt).

4565 **A. pronus** Er. Mooers, Sep (Not); Fourth L., Je (NYS); Johnstown (NYS); Sodus Pt., May (Not); Buffalo (Z&R); Windsor, Je (Not); McLean, May, Aug (Dt); Peekskill, Jl (AM); Hudson Falls, *Sherm* (AM); Esopus, Aug, *Sherm* (AM).

4566 **A. caseyi** Lg. "NY" (Csy).

4567 **A. densus** Lec. **LI:** Flushing, Mar, *Schott* (Sf).

HETEROTHOPS Stephens

4569 **H. fumigatus** Lec. Keene Val., Aug–Sep (Not); Catskills, *Pears* (Sf).

4569a **H. fumigatus** var. **fusculus** Lec. Westfield, May (Not).

4571 **H. pusio** Lec. "NY" (Lec).

QUEDIUS Stephens

4574 **Q. ferox** Lec. **SI** (L&D); **LI**, *Schaupp* (AM).

4575 **Q. (Quedionuchus) laevigatus** Gyll. Cranberry L., Je–Jl, under bark of dead logs (H); Sodus Pt., Je, Westfield, May (Not); Ithaca, Ap, Jl (Dt); West Pt., Ap, *Robn* (Sf).

4578 **Q. vernix** Lec. Ithaca, May, Oct, Ringwood, Jl, McLean, Jl–Aug (Dt); Clinton Hgts., Ap (NYS); Mosholu (Sf); **SI**, Je (L&D).

4579 **Q. molochinus** Grav. Ithaca, Mar–Ap, Oct (Dt); Slide Mt., Jl, *Pears* (Sf); Peekskill, Aug (AM); West Pt. (Robn); **SI** (L&D).

4586 **Q. capucinus** Grav. Buffalo (Z&R).

4589 **Q. bruneipennis** Mann. Ithaca, Ap (Dt); Southfields, Oct, *Schott* (Sf).

4595 **Q. peregrinus** Grav. Ithaca, Aug–Oct (Dt); West Pt. (Robn); Peekskill, Mar, *Sherm* (AM).

4599 **Q. erythrogaster** Mann. "NY" (Lg Cat.).

4600 **Q. mesomelinus** Marsh. **SI,** Je (L&D); **LI:** Flatbush, Aug, *Zab* (AM), May, *Schott* (Sf), as *fulgidus* Fab.

4601 **Q. iracundus** Say (*fulgidus* Horn). "NY" (Horn); Ithaca, Je (Dt).

4621 **Q. spelaeus** Horn. "NY" (Horn). Questioned by Fall.

SUBFAMILY **OXYPORINAE**

OXYPORUS Fabricius

4628 **O. femoralis** Grav. Newport, Jl (NYS); Olcott, Je–Aug (Dt); Ithaca, Jl–Sep (Dt); White L., Nov, *Zab* (AM); West Pt., Je (Sf); Peekskill, *Sherm* (AM); West Pt. (Robn); **SI,** Je–Oct (L&D); **LI:** Queens, Sep 26 (Frost); Flatbush, *Zab* (AM); Yaphank, Oct, *Eng* (Sf).

4631 **O. major** Grav. Cranberry L., Je (H); Peekskill, Jl (AM); West Pt. (Robn); **SI,** Sep (L&D); **LI:** Queens, Sep 19 (Frost), Sep, *Schott* (Sf); Richmond Hill (Sf).

4632 **O. rufipennis** Lec. Johnstown, Sep (NYS); Pike (NYS); Debruce, Aug (Ds); West Pt., Je, *Robn* (Ds).

4633 **O. stygicus** Say. Keene Val., Je (Not); Ft. Montgomery, Je, *Schott* (Sf); West Pt. (Robn).

4634 **O. vittatus** Grav. White L., Nov (AM); Albany, Karner, Sep (NYS); West Pt. (Robn); **SI** (L&D); **LI:** Flatbush, Nov, *Zab* (AM).

4635 **O. fasciatus** Horn. **LI:** Brooklyn, Je (Ds); Wyandanch (Sf).

4637 **O. lateralis** Grav. Keene Val., Je (Not); Newport, May (NYS); Olcott, Oct (Dt); Pike, May (NYS); McLean, May (Flet); West Pt. (Robn); Mosholu (Sf); **SI,** Oct (L&D); **LI,** *Eng* (Sf).

4637a **O. lateralis** var. **brevis** Melsh. "NY" (Melsh).

4638 **O. occipitalis** Fauv. Newport (NYS); Albany, Sep (NYS).

4639 **O. lepidus** Lec. "NY" (Lec).

4640 **O. quinquemaculatus** Lec. West Pt., Je, *Robn* (Ds, Sf).

SUBFAMILY **TACHYPORINAE**

TACHINUS Gravenhorst

4652 **T. memnonius** Grav. Gloversville, Sep (NYS); Buffalo vic. (Z&R); Pike, Nov 11 (Frost); Ithaca, Sep (Dt); Albany, Oct (NYS); Peekskill (AM); **SI,** Nov (L&D).

4657 **T. repandus** Horn. Windsor, Je (Not); McLean, Jl (Dt); Trenton Falls (Horn); Peekskill, May (AM); West Pt. (Robn); **SI** (AM).

4660 **T. addendus** Horn. Newport, May (NYS).

4661 **T. parallelus** Horn. Mt. Skylight, Jl (Not).

4663 **T. flavipennis** Dej. Newport, May (NYS); Ilion (NYS); Cranberry L., Je–Jl (H); Ithaca, Ringwood, May–Je (Dt); McLean, Je (Flet); Peekskill, Sep (AM); Suffern, May, *Schott* (Sf); **SI,** Mar–Ap, Jl, in horse manure (L&D).

4664 **T. luridus** Er. Newport, Je (NYS); Fourth L., Je (NYS); Buffalo (ErANSP); Westfield, May (Not); Karner, Ap (NYS); McLean, Je (Flet).

4665 **T. fimbriatus** Grav. Newport, Je, Johnstown, Sep (NYS); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Je–Sep (Dt); McLean, Sep 12 (Flet); White L., Jl, *Zab* (AM); Poughkeepsie, Je (NYS); Peekskill, Jl, Sep (AM); West Pt. (Robn); West Farms (AM); **SI**, Je–Sep (L&D); **LI**: Flatbush, *Zab* (AM); Orient, *Lath* (NYS).

4666 **T. picipes** Er. Wilmington, Aug (Dt); Johnstown, Sep (NYS); Woodworth's L., Jl (NYS); Cranberry L., Je 23, in decaying fungus; Buffalo (Z&R); L. George, Aug, *Zab* (AM); White L., Jl, Nov, *Zab* (AM).

4668 **T. limbatus** Melsh. Mooers, Sep (Not); Newport, May–Je, Wells, Jl (NYS); Wilmington, Aug (Dt); Gloversville, Sep (NYS); Johnstown, Ap (NYS); Buffalo (Z&R); Ithaca, Jl, Sep (Dt); Catskills, Aug (Ds); Hudson, Jl, *Eng* (Sf); Mosholu (Sf); West Pt. (Robn); **SI**, May–Je (L&D); **LI**, Sep, *Shoe* (Sf).

4669 **T. fumipennis** Say. **SI**, May (L&D).

4670 **T. pallipes** Grav. (*frigidus* Er.). Wilmington, Aug (Dt); Cranberry L., Je–Jl, in decaying fungus (H); Buffalo (Z&R); White L., Jl, *Zab* (AM); Ithaca, Ap, Ringwood, May (Dt); Peekskill (AM); West Pt. (Robn); **LI**, Je, *Shoe*, *Eng* (Sf).

4673 **T. basalis** Er. (*circumcinctus* Mäkl.). Gloversville, Sep (NYS); Ringwood, May (Dt).

4674 **T. nitiduloides** Horn. "NY" (Horn); Mosholu, Je (Sf). Questioned by Fall.

TACHYPORUS Gravenhorst

4678 **T. maculipennis** Lec. Trenton (Horn); Peekskill, *Sherm* (AM).

4679 **T. elegans** Horn. Ithaca, Oct–Nov, Ringwood, May (Dt); **SI** (L&D); **LI**, Ap, Aug, *Shoe* (Sf).

4681 **T. jocosus** Say. Mt. Whiteface, Aug (Dt); Axton, Je (M&H); Sodus Pt., May (Not); Olcott, Ap (Dt); Buffalo (Z&R); McLean, Nov (Dt); Windsor, Je (Not); Peekskill, May, Jl (AM); **SI**, Jan (L&D); **LI**: Flushing, Mar (Ds).

4682 **T. chrysomelinus** L. Axton, Je (M&H); Cranberry L., Jl (Drk); Gloversville, Nov (NYS); Olcott, Ap (Dt); Buffalo (Z&R); Castile, May, *Brad* (Flet); McLean, May (Dt); Windsor, Je (Not); Washington Co, Aug (AM).

4682a **T. chrysomelinus** var. **acaudus** Say. Cranberry L., Je (H); Syracuse, Montour Falls, Ap–May, under stones, herbage (H).

4686 **T. nitidulus** Fab. (*brunneus* Fab.). Syracuse, Montour Falls, Ap–Je (H); Sodus Pt., May (Not); Olcott, Ap (Dt); Westfield, May, Windsor, Je (Not); Peekskill, Mar–Ap (AM); **SI**, Mar, Nov, on salt meadow (L&D).

LEUCOPARYPHUS Kraatz

4687 **L. silphoides** L. Gloversville, Oct (NYS); Oswego, Aug, *Bks* (NYS); Buffalo (Z&R).

ERCHOMUS Motschulsky

4690 **E. ventriculus** Say. Axton, Je (M&H); Elizabethtown, Aug, Newport, Je (NYS); Cranberry L., Je, under bark of dead logs (H); Herkimer Co, *Yg* (AM); Syracuse, under bark (H); Buffalo (Z&R); Batavia, Sep (Kngt); Castile, *Brad* (Flet); Olcott, Ithaca, very common under

bark of logs in damp woods (Dt); Westfield, May (Not); McLean, Sep 20 (Flet); Albany, Oct, Delmar, May, Cedar Hill, Ap, Nassau, Ap, Normanskill, Ap (NYS); **SI**, Ap–May, under bark (L&D); **LI**: Aqueduct, May, *Shoe* (Sf).

CONOSOMA Kraatz

4695 **C. knoxi** Lec. Newport, May (NYS); Cranberry L., Jl 4, under piece of bark on ground (H); **SI** (L&D).

4696 **C. littoreus** L. Potsdam, May (NYS); Newport, May (NYS); Cranberry L., Je 6, in decaying fungi (H); Peekskill, May–Je (AM).

4697 **C. opicus** Say. Newport, May (NYS); Windsor, Je (Not); West Pt. (Robn); **SI**, Ap, Je, *Woodr* (L&D).

4698 **C. imbricatus** Csy. Newport, May (NYS); Ithaca, May, *Bish* (NYS); Albany, Nov, Greenville, Ap (NYS); Peekskill, *Sherm*; Van Cort. Pk., West Farms, as *pubescens* Payk. (AM); **SI**, Oct, Dec, under weeds in garden and on fungus (L&D); **LI**: Mar, *Eng* (Sf); Riverhead, Ap (NYS).

4700 **C. velocipes** Csy. Near NYC (Csy).

4705 **C. basalis** Er. Syracuse (H); Ithaca, Ap (Dt); West Pt. (Robn); **SI**, Ap, Je, Sep (L&D); **LI**: Central Pk., May, *Eng* (Sf).

4706 **C. occulatus** Csy. Westfield, May (Not).

4707 **C. crassus** Grav. Newport, May (NYS); Cranberry L., Je 25, in decaying fungi (H); Johnstown, Sep (NYS); Buffalo (Z&R); Pike (NYS); Ithaca, Sep (Dt); McLean, Jl (Dt); Schoharie (Not); Kinderhook, Je (NYS); **SI**, May–Sep (L&D); **LI**: Rosedale, Oct, *Eng* (Sf); Riverhead, Ap (NYS).

4713 **C. scriptus** Horn. Newport (NYS); Johnstown, Sep (NYS).

BOLITOBIUS Stephens

4716 **B. niger** Grav. Newport (NYS).

4718 **B. axillaris** Grav. Johnstown, Sep (NYS).

4719 **B. dimidiatus** Er. Fourth L., Je (NYS); Ft. Montgomery, Jl (Ds); **SI**, Sep (L&D); **LI**: Wyandanch, Aug, *Schott* (Sf).

4720 **B. nepigonensis** Bnhr. Cranberry L., Jl 2–7, in dying beech (H).

4721 **B. intrusus** Horn. Sodus Pt., Je (Not); Ithaca, May (NYS); Ramapo (Sf).

4722 **B. cingulatus** Mann. Newport, May (NYS); Tuckahoe, Nov, *Schott* (Sf); **SI**, Ap, *Shoe* (Sf); **LI**: Bellport, Aug, *Nic* (Sf).

4723 **B. cincticollis** Say. Axton, Je (M&H); Newport, May (NYS); Fourth L., Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Windsor, Je (Not); Karner, May (NYS); West Pt. (Robn); **SI** (L&D).

4724 **B. anticus** Horn. Newport (NYS); Gloversville, Sep (NYS); Mosholu (Sf); **SI**, Aug, Nov (L&D).

4727 **B. trinotatus** Er. Cranberry L., Je 23, in decaying fungus (H); Newport, May (NYS); Johnstown, Sep (NYS); Albany, Sep. and S. Westerlo, May (NYS); L. George, Aug, *Zab* (AM); Peekskill, Jl, *Sherm* (AM); West Pt. (Robn); Mosholu (Sf); **SI** (L&D); **LI**: Flatbush, Nov 8, *Zab* (AM).

4729 **B. obsoletus** Say. Poughkeepsie, Aug (NYS); Peekskill, Sep (AM).
4730 **B. cinctus** Grav. Newport, May (NYS); Buffalo (Z&R); Peekskill, Jl (AM); West Pt. (Robn); **LI**: Yaphank, Oct, *Eng* (Sf).
4732 **B. quaesitor** Horn. Newport (NYS); Windsor, Je (Not).

BRYOPORUS Kraatz

4737 **B. rufescens** Lec. Elizabethtown, Aug, Big Moose, Jl, Newport, May, Ilion, May (NYS); Olcott, Ap (Dt); Westfield, May, Windsor, Je (Not); Karner, Je (NYS); Peekskill, May, *Sherm* (AM); West Pt. (Robn); Mosholu, Je (Sf).

MYCETOPORUS Mannerheim

4738 **M. humidus** Say. **LI**: Rockaway Beach, Je, *Schott* (Sf); Forest Pk., Ap, *Pears* (Sf).
4739 **M. horni** Lg. Keene Val., Jl (Not).
4740 **M. consors** Lec. Ringwood, May (Dt).
4742 **M. americanus** Er. Cranberry L., Je (H); Syracuse, May (H); **LI**: Little Neck, Ap, *Schott* (Sf).
4742a **M. americanus** var. **lucidulus** Lec. Keene Val., Je, Tivoli, May (Not).
4743a **M. flavicollis** Lec. var. **pictus** Horn. McLean, May 16 (Flet).
4744 **M. splendidus** Grav. Syracuse, May (H).

SUBFAMILY HABROCERINAE

HABROCERUS Erichson

4752 **H. schwarzi** Horn. "NY" (Horn); Van Cort. Pk., Oct, *Nic* (Sf); **LI**: North Beach, Jan, *Schott* (Sf).

SUBFAMILY TRICHOPHYINAE

TRICHOPHYA Mannerheim

4755 **T. pilicornis** Gyll. Westfield, May (Not); Red House, Je (Not); near NYC (Csy).

SUBFAMILY ALEOCHARINAE

DEINOPSIS Matthews

4757 **D. americana** Kr. NY (ANSP); Ithaca, May (Dt, Fenyes).

GYMNUSA Gravenhorst

4760 **G. brevicollis** Payk. Ithaca, May (Dt, Fenyes); McLean, May (Flet).

MYLLAENA Erichson

4764 **M. dubia** Grav. Peekskill, *Sherm* (AM).
4765 **M. intermedia** Er. Westfield, May (Not).

4766 **M. minuta** Grav. **SI,** Je (L&D).
4770 **M. vulpina** Bnhr. Mooers, Sep (Not); Westfield, May, Windsor, Je (Not); Schoharie (Not).
4772 **M. audax** Csy. Near NYC (Csy).
4773 **M. abdita** Csy. Westfield, May (Not).
4776 **M. procidua** Csy. "NY" (Csy).

LEPTOBAMONA Casey

4797 **L. pertenuis** Csy. Keene, Jl, Jay, Aug, Canisteo, Je (Not).

GYRONYCHA Casey

4798 **G. valens** Csy. Ithaca, Aug (Dt, Fenyes).
4801 **G. fusciceps** Csy. Catskills (Csy).
4803 **G. longicornis** Csy. Westfield, May (Not); Ithaca (Csy).

SOMATIUM Wollaston

4814 **S. nugator** Csy. Peekskill, Dec (Sherm).

OLIGOTA Mannerheim

4825 **O. pusillima** Grav. NYC (Julich).
4826 **O. parallela** Csy. **LI:** Willetts Pt. (Csy).
4827 **O. linearis** Csy. "NY" (Csy).

PLACUSA Erichson

4842 **P. tachyporoides** Waltl. Cranberry L., Jl 5 (H); Olcott, Aug, *Dt* (Fenyes).
4844 **P. despecta** Er. Albany, May (NYS).
4845 **P. tacomae** Csy. Olcott, Dec, *Dt* (Fenyes).

SILUSA Erichson

4857 **S. valens** Csy. Catskills (Csy).

THECTUROTA Casey

4875 **T. demissa** Csy. Catskills (Csy).

THECTURA Thomson

4880 **T. cuspidata** Er. Westfield, May (Not).
4881 **T. americana** Csy. "NY" (Csy).

LEPTUSA Kraatz

—— **L. laticollis** Not. Westfield, May (Not).
4892 **L. opaca** Csy. Olcott, Aug, *Dt* (Fenyes).
4893 **L. seminitens** Csy. "NY" (Csy).
4899 **L. pavida** Csy. "NY" (Csy).

BOLITOCHARA Mannerheim

4928 **B. marginella** Csy. Mooers, Sep (Not); Cranberry L., Je (H); Olcott, Sep, *Dt* (Fenyes).

4929 **B. picta** Csy. W. Hebron (Lg); near NYC (Csy); **SI**, Je (L&D).

4930 **B. blanchardi** Csy. Olcott, Aug–Sep, *Dt* (Fenyes); Windsor, Je (Not).

—— ?**B. trimaculata** Er. Olcott, Aug, *Dt* (Fenyes). The *tristigma* of Casey, which may or may not be the *trimaculata* of Er. (Fall).

HOMALOTA Mannerheim

4937 **H. plana** Gyll. Cranberry L., Jl (H); Westfield, May (Not).

4942 **H. humilis** Csy. "NY" (Csy).

EUMICROTA Casey

4947 **E. corruscula** Er. Olcott, Je, *Dt* (Fenyes); Catskills (Csy); **SI**, Sep (L&D).

4950 **E. socia** Er. Tivoli, May (Not).

4952 **E. pallidula** Csy. Catskills (Csy).

GYROPHAENA Mannerheim

4956 **G. affinis** Sahlb. Newport, May (NYS); Olcott, Aug, *Dt* (Fenyes).

4959 **G. vitrina** Csy. Catskills (Csy).

4960 **G. attonsa** Csy. Catskills (Csy).

4961 **G. flavicornis** Melsh. Cranberry L., Je (H); Windsor, Je (Not); Catskills (Csy).

4963 **G. gaudens** Csy. Red House, Je (Not).

4966 **G. lobata** Csy. Mooers, Sep (Not); Albany, Sep (NYS); Catskills (Csy); **SI** (L&D).

4967 **G. involuta** Csy. Catskills (Csy).

4968 **G. antennalis** Csy. Catskills (Csy).

4970 **G. fuscicollis** Csy. Catskills (Csy).

4971 **G. modesta** Csy. Catskills (Csy).

4972 **G. gilvicollis** Csy. "NY" (Csy).

4977 **G. sculptipennis** Csy. Catskills (Csy).

4978 **G. subpunctata** Csy. Catskills (Csy).

4980 **G. laetula** Csy. Catskills (Csy).

4982 **G. fustifer** Csy. Peekskill (Csy).

4983 **G. centralis** Csy. Catskills (Csy).

4987 **G. subnitens** Csy. Keene, Keene Val., Jl, Tivoli, May (Not).

4988 **G. compacta** Csy. Tivoli, May (Not).

4995 **G. fasciata** Say (*vinula* Er.). Mooers, Sep (Not); Newport, May (NYS); Olcott, Aug, *Dt* (Fenyes); Parkville, Jl (AM); **SI** (L&D).

4996 **G. ocularis** Csy. Catskills (Csy).

4999 **G. dissimilis** Er. **SI**, Je (L&D).

XENODUSA Wasmann

5008 **X. cava** Lec. Johnstown, Oct (NYS); Ithaca, Jl, *Dt* (Fenyes).

MYRMEDONIA Erichson

5018 **M. caliginosa** Csy. Catskills (Csy).
5022 **M. obliqua** Csy. "NY" (Csy).
5026 **M. lauta** Csy. "NY" (Csy).

HOPLANDRIA Kraatz

5037 **H. lateralis** Melsh. Westfield, May, Windsor, Je (Not); **SI**, Oct (L&D).
5038 **H. pulchra** Kr. W. Hebron (Lg).
5039 **H. ochracea** Kr. "NY" (Lg).

TRICHIUSA Casey

5058 **T. transversa** Csy. Westfield, May (Not).
5070 **T. robustula** Csy. Cranberry L., Je 28 (H).

TINOTUS Sharp

5083 **T. caviceps** Csy. **SI** (Fenyes).
5085 **T. pallidus** Csy. Olcott, Je–Jl (Dt); Ithaca, Je (Dt).
5089 **T. imbricatus** Csy. Catskills (Csy).
—— **T. lateralis** Not. Westfield, May (Not).

PHILOTERMES Kraatz

5098 **P. pilosus** Kr. **LI**: Flatbush, May, from nest of *Termes flavipes*, *Zab* (AM).

ATHETA Thomson

5099 **A. divisa** Märk. Cranberry L., Je–Jl (H); Olcott, Jl, *Dt* (Fenyes).
5102 **A. coriaria** Kr. Olcott, Aug, *Dt* (Fenyes).
5104 **A. ventricosa** Bnhr. N. Elba (AM); Cranberry L., Je (H); Ithaca, Aug, *Good* (Fenyes).
5106 **A. nigritula** Grav. Windsor, Je (Not); **LI**: Brooklyn, Jl (Bnhr).
5112 **A. virginica** Bnhr. Cranberry L., Je (H); Ithaca, Je, *Dt* (Fenyes).
5120 **A. frosti** Bnhr. Olcott, Sep, *Dt* (Fenyes).
5122 **A. obsoleticollis** Bnhr. Olcott, Sep, *Dt* (Fenyes).
5132 **A. klagesi** Bnhr. Olcott, Sep–Oct, *Dt* (Fenyes); **SI** (L&D).
5138 **A. vaticina** Csy. **LI**: Willetts Pt. (Csy).
5139 **A. iterans** Csy. Near NYC (Csy).
5140 **A. enitescens** Csy. Ithaca (Csy).
5149 **A. rusticula** Csy. Catskills (Csy).
5151 **A. catula** Csy. Catskills (Csy).
5153 **A. candidula** Csy. Catskills (Csy).

5154 **A. diffisa** Csy. Catskills (Csy).
5161 **A. gnoma** Csy. Catskills (Csy).
5162 **A. elota** Csy. Catskills (Csy).
5163 **A. insidiosa** Csy. Catskills (Csy).
5164 **A. ducens** Csy. Catskills (Csy).
5165 **A. tradita** Csy. Catskills (Csy).
5169 **A. auguralis** Csy. Catskills Csy).
5171 **A. dama** Csy. Catskills (Csy).
5173 **A. tractabilis** Csy. Catskills (Csy).
5174 **A. ordinata** Csy. Catskills (Csy).
5181 **A. strigulosa** Csy. Catskills (Csy).
5187 **A. discipula** Csy. Catskills (Csy).
5209 **A. nupera** Csy. **LI:** Willetts Pt. (Csy).
5211 **A. citata** Csy. Catskills (Csy).
5212 **A. nympha** Csy. Catskills (Csy).
5213 **A. discreta** Csy. Catskills (Csy); W. Hebron (Lg).
5219 **A. spadix** Csy. Near NYC (Csy).
5230 **A. irvingi** Csy. Catskills (Csy).
5230a **A. irvingi** var. **affluens** Csy. **LI** (Csy).
5230b **A. irvingi** var. **clarescans** Csy. Catskills (Csy).
5235 **A. sororella** Csy. Catskills (Csy).
5236 **A. officiosa** Csy. Catskills (Csy).
5237 **A. tuta** Csy. Ithaca (Csy).
5239 **A. spuriella** Csy. Catskills (Csy).
5248 **A. alutacea** Csy. Ithaca, *Sm* (Csy).
5250 **A. dentata** Bnhr. Cranberry L., Je 30 (H); Westfield, May, Windsor, Je (Not); Schoharie (Not).
5300 ?**A. festinans** Er. Olcott, Feb, *Dt* (Fenyes).
5302 ?**A. polita** Melsh. Olcott, Jl, *Dt* (Fenyes).
5307 **A. pennsylvanica** Bnhr. Ithaca, Ap, Aug, *Good* (Fenyes); Catskills (Csy).
5308 **A. unigena** Csy. Catskills (Csy).
5314 **A. palustris** Kies. Mooers, Sep (Not); Cranberry L., Je 27–29 (H); Buffalo (Hamilton); Westfield, May, Windsor, Je (Not); Olcott, Mar, *Dt* (Fenyes); Westfield, May, Windsor, Je (Not); Brookton, Ap, *Dt* (Fenyes); Schoharie (Not).
5316 **A. repanda** Csy. Ithaca (Csy); Catskills (Csy).
5318 **A. frugalis** Csy. Catskills (Csy).
5319 **A. leviceps** Csy. Catskills (Csy).
—— **A. inconspicua** Er. "NY", *Sherm* (AM). A European species.
—— **A. luridipennis** Mann. West Farms, Oct (AM).

TRAUMOECIA Rey

5338 **T. obsequens** Csy. Catskills (Csy).
5354 **T. ithacana** Csy. Ithaca (Csy).
5357 **T. asperiola** Csy. "NY" (Csy).

5366 **T. fecunda** Csy. Catskills (Csy).
5368 **T. tincta** Csy. "NY" (Csy).
5370 **T. ingratula** Csy. Windsor, May–Je (Not).
5371 **T. recessa** Csy. Catskills (Csy).

AMPHIBITHERION Notman

A. demissum Not. Westfield, May (Not).

DINARAEA Thomson

5384 **D. subdepressa** Bernh. Westfield, May (Not).
—— **D. angustula** Gyll. Buffalo (Hamilton).

METAXYA Rey

5401 **M. dichroa** Grav. Mooers, Sep (Not); **SI,** Feb 22, in sifting, *Woodr* (L&D).
5413 **M. impotens** Csy. Ithaca (Csy).
5413a **M. impotens** var. **albanica** Csy. Catskills (Csy).
5425 **M. complana** Mann. **SI:** Watchogue, Ap 22 (L&D).
—— **M. vilis** Er. Westfield, May (Not).
—— **M. magniceps** Sahl. Windsor, Je (Not).
—— **M. obscuricornis** Not. Mooers, Oct, Dec (Not).

HYDROSMECTA Thomson

5432 **H. caduca** Csy. Westfield, May (Not); Catskills (Csy).
5439 **H. rarula** Csy. Ithaca (Csy).
5447 **H. scenica** Csy. Near NYC (Csy).
—— **H. torrida** Not. Westfield, May (Not).
—— **H. tincta** Not. Westfield, May (Not).

ALOCONOTA Thomson

5453 **A. sulcifrons** Steph. Buffalo (Hamilton).
5454 **A. cambrica** Woll. Westfield, May, Windsor, Je (Not).
5459 **A. brunneipes** Csy. Ithaca, *Sm* (Csy).
5461 **A. ventralis** Csy. Ithaca, *Sm* (Csy).

AMISCHA Thomson

5473 **A. analis** Grav. N. Elba, Oct (Lg); Cranberry L., Je 23 (H); Westfield, May (Not); Ithaca, Aug, *Good* (Fenyes); Mosholu (AM).
5478 **A. normalis** Csy. Near NYC (Csy).

DATOMICRA Rey

5507 **D. decolorata** Csy. Catskills (Csy).
5508 **D. inopia** Csy. Catskills (Csy).
5511 **D. diffidens** Csy. Catskills (Csy).

5512 **D. vacans** Csy. Catskills (Csy).
5517 **D. hebescens** Csy. Catskills (Csy).
5522 **D. filiformis** Csy. Catskills (Csy); **LI:** Bellport, Jl (Nic).
5523 **D. particula** Csy. Catskills (Csy).
5526 **D. atomica** Csy. Catskills (Csy).

SYNAPTINA Casey

5531 **S. consonens** Csy. Near NYC (Csy).

DIMETROTA Rey

5560 **D. novella** Csy. **LI:** Willetts Pt. (Csy).

SABLETA Casey

5570 **S. flaveola** Melsh. **SI,** Aug (L&D).
5572 **S. ornator** Csy. Catskills (Csy).

PSEUDOTA Casey

5588 **P. puricula** Csy. Catskills (Csy).
5589 **P. fascinans** Csy. Catskills (Csy).

ARISOTA Casey

5598 **A. tetricula** Csy. Ithaca (Csy); Catskills (Csy).

PANCOTA Casey

5604 **P. collaris** Csy. Catskills, *Sm* (Csy).
5605 **P. redundans** Csy. Catskills (Csy).
5610 **P. cupiens** Csy. Catskills (Csy).
5611 **P. laetabilis** Csy. Catskills (Csy).
5614 **P. luteola** Er. N. Elba, Oct (Lg).
5618 **P. euphonia** Csy. Catskills (Csy).
5620 **P. panda** Csy. Windsor, Je (Not).
5623 **P. reclusa** Csy. Catskills (Csy).

ACROTONA Thomson

5627 ?**A. fungi** Grav. Olcott, Mar 26, Ap 19, Jl 23, *Dt* (Fenyes).
5630 **A. clientula** Er. Westfield, May (Not).
5631 **A. modesta** Melsh. Cranberry L., Je 30 (H); Ithaca, May–Je, Sep, *Dt* (Fenyes); **SI,** Mar (L&D).
5636 **A. fusiformis** Csy. NYC, *Sm* (Csy).

COLPODOTA Rey

5650 **C. puritana** Csy. Mooers, Sep (Not).
5653 **C. acutella** Csy. Catskills (Csy).
5654 **C. egregiella** Csy. Ithaca, Catskills (Csy).
5659 **C. assecla** Csy. Catskills (Csy).
—— **C. parva** Sahlb. Westfield, May, Windsor, Je (Not).

COPROTHASSA Thomson

5678 **C. sordida** Marsh. Cranberry L., Je–Jl (H); Olcott, Je, Sep, *Dt* (Fenyes); Buffalo, as *luridipennis*, fide Fenyes (Z&R); Montour Falls, Je (H); Ithaca, Je, Sep, *Dt* (Fenyes); Windsor, Je (Not); West Farms (AM).
5679 **C. smithi** Csy. Catskills (Csy).

STRIGOTA Casey

5681 **S. oppidana** Csy. Near NYC (Csy).

GNYPETA Thomson

5702 **G. nigrella** Lec. (*brunnescens* Csy.). Olcott, Jl, *Dt* (Fenyes); Ithaca, Jl, *Dt* (Fenyes); near NYC (Csy).
5703 **G. baltifera** Lec. Olcott, Je, *Dt* (Fenyes); **LI:** Coney I. (Lec).
5708 **G. atrolucens** Csy. Catskills (Csy, Fenyes).

TACHYUSA Erichson

5722 **T. smithi** Csy. Catskills, *Sm* (Csy).
5725 **T. americana** Csy. Olcott, Jl, *Dt* (Fenyes); Westfield, May (Not); Ithaca, Catskills (Csy).
5726 **T. silvatica** Csy. Ithaca (Csy).
5730 **T. cavicollis** Lec. Ithaca, Jl, *Dt* (Fenyes); Windsor, Je (Not).
5736 **T. pruinosa** Csy. Catskills, *Sm* (Csy).

MERONERA Sharp

5743 **M. venustula** Er. Mooers, Sep (Not); Buffalo (Z&R); Olcott, Feb, Ap, *Dt* (Fenyes); Ithaca, Je, *Dt* (Fenyes); Cortland, Jl, *Bks* (NYS); West Pt. (Robn); **SI,** Feb 22, in sifting, *Woodr* (L&D).
5745 **M. obliqua** Csy. Catskills, *Sm* (Csy).

BORBOROPORA Kraatz

5747 **B. quadriceps** Lec. "NY", Ap (Lec, Csy).

CARDIOLA Rey

5750 **C. obscura** Grav. NY (from Jour. NY Ent. Soc., 20:25).

ALEODORUS Say

5751 **A. bilobatus** Say. "NY" (Lg); **LI:** Coney I. (Lec).

5753 ?**A. partitus** Lec. Buffalo (Z&R).

FALAGRIA Mannerheim

5755 **F. dissecta** Er. (*ithacana* Csy.). Cranberry L., Je–Jl (H); Mooers, Sep (Not); Gloversville, Mar (NYS); Syracuse, Ap, skeleton (H); Buffalo (Z&R); Windsor, Je (Not); Ithaca, Catskills (Csy); Peekskill, Mar (AM); Mosholu (AM); **SI,** Ap (L&D).

LORINOTA Casey

5757 **L. cingulata** Lec. Newport, May (NYS); Olcott, Aug, Oct, *Dt* (Fenyes); Westfield, May (Not); Ithaca, Nov, *Dt* (Fenyes).

ANAULASCASPIS Ganglbauer

5762 **A. perexilis** Csy. (*hudsonica* Csy.). Catskills (Csy).

ALEOCHARA Gravenhorst

5763 **A. curtula** Goeze. **SI** (L&D) as *brachyptera* Fourc.; **LI** (AM).

5764 **A. lustrica** Say. Ithaca, Sep–Oct, *Dt* (Fenyes); McLean Bogs, Aug, *Dt* (Fenyes); **LI** (Csy).

5764a **A. lustrica** var. **sternalis** Csy. Ithaca, Catskills (Csy).

5766 **A. lata** Grav. Newport, Je (NYS); Ilion, May (NYS); Buffalo (Z&R); Pike, Ap (NYS); Montour Falls, Ap, on carrion (H); Westfield, May (Not); Ithaca, Mar, Nov, *Dt* (Fenyes); West Pt. (Robn); West Farms (LgAM); **SI,** Ap, in dead log (L&D); **LI:** Astoria (AM); Orient, *Lath* (NYS).

5767 **A. rubripes** Blatch. Newport, May (NYS); Olcott, Mar, *Dt* (Fenyes).

5771 **A. medialis** Csy. Catskills (Csy).

5774 **A. pleuralis** Csy. Newport (NYS); McLean, Je, Aug, *Dt* (Fenyes); near NYC (Csy).

5775 **A. americana** Csy. **SI** (L&D).

5780 **A. puberula** Klug. Peekskill, May, *Sherm* (Fenyes).

5784 **A. rubripennis** Csy. Westfield, May (Not).

BARYODMA Thomson

5797 **B. defecta** Csy. Catskills (Csy).

5799 **B. sculptiventris** Csy. Cranberry L., Jl 2 (H); Olcott, Je, *Dt* (Fenyes); Montour Falls, Je (H); Westfield, May (Not); Ithaca, May–Je, Sep, *Dt* (Fenyes); Catskills (Csy).

5806 **B. bimaculata** Grav. Newport, May (NYS); Potsdam (Houghton); Cranberry L., Je 25 (H); Oswego, Jl, *Bks* (NYS); Buffalo (Z&R); Windsor, Je (Not); **SI,** May–Je (L&D).

5820 **B. nitida** Grav. Shokan (Thompson); **SI,** Aug (L&D).

EMPLENOTA Casey

5833 **E. maritima** Csy. NY to Va (Csy).

HOMOEUSA Kraatz

5858 **H. crinitula** Csy. NY (Jour. NY Ent. Soc., 8:54).

CRATARAEA Thomson

5866 **C. suturalis** Mann. Keene Val., Je (Not).

ISCHNOGLOSSA Kraatz

5872 **I. abscissa** Csy. Westfield, May (Not).

THIASOPHILA Kraatz

5876 **T. laticollis** Csy. Olcott, May, *Dt* (Fenyes).
—— **T. parvula** Not. Westfield, May (Not).

STICHOGLOSSA Fairmaire

5882 **S. corticina** Er. Olcott, May–Oct, *Dt* (Fenyes).

DASYGLOSSA Erichson

5884 **D. fenyesi** Bnhr. Mt. Marcy, Oct (Lg).

HYLOTA Casey

5885 **H. ochracea** Csy. Near NYC (Csy).

OXYPODA Mannerheim

5889 **O. sagulata** Er. "NY" (Er).
5896 **O. convergens** Csy. Catskills (Csy).
5900 **O. hudsonica** Csy. Near NYC (Csy).
5905 **O. stygica** Csy. Near NYC (Csy).
5910 ?**O. perexilis** Csy. "NY" (Csy).
5921 **O. rubescans** Csy. Catskills (Csy).
5937 **O. canora** Csy. Catskills (Csy).
—— **O. schaefferi** Not. Windsor, Je (Not).

CALLICERUS Gravenhorst

5990 **C. puberulus** Csy. "NY" (Csy).

CHILOPORA Kraatz

5992 **C. americana** Csy. Peekskill (Csy).

PACHYCEROTA Casey

6017 **P. duryi** Csy. Ithaca, Je, *Dt* (Fenyes).

PHLOEOPORA Erichson

6020 **P. corticalis** Grav. (*ferruginea* Csy.). Olcott, May, *Dt* (Fenyes).

FAMILY PSELAPHIDAE [37]

TRIMIOMELBA Casey

6054 **T. dubia** Lec. Peekskill, Ap (Sherm); Ramapo (Sf).

ACTIUM Casey

6065 **A. foveicolle** Lec. **LI:** Yaphank, May (Not).
6066 **A. angustum** Csy. Ramapo (Sf).
6071 **A. globifer** Lec. Ramapo (Sf); NY, type locality; **LI:** Baldwin, May 10, *Ds* (Nic).

PSEUDACTIUM Casey

6073 **P. mellinum** Csy. Keene Val., Lowville, Je (Not).

MELBA Casey

6078 **M. fossiger** Csy. **LI:** Wyandanch, Oct 30 (Nic).

TRIMIOPLECTUS Brendel

6090 **T. obsoletus** Bndl. Brooklyn, Je 16, *Franck* (Nic).

EUPLECTUS Leach

6093 **E. confluens** Lec. Peekskill, Je (Sherm).
6095 **E. elongatus** Bndl. Keene Val., May, Je, Jl (Not).
6100 **E. rotundicollis** Bndl. Keene Val., Je (Not).
6109 **E. hudsonicus** Csy. NY (Csy).

BIBLOPORUS Thomson

6126 **B. bicanalis** Csy. NY (Csy).

BIBLOPLECTUS Reitter

6127 **B. ruficeps** Lec. **LI:** Wyandanch, Ap 3, in sphagnum bog (Nic).

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[37] Alan S. Nicolay has gone over the manuscript for this family, made some changes, and supplied many records.

RAMECIA Casey

6131 **R. crinita** Bndl. Buffalo (Z&R), as *Euplectus crinitus*; Westfield, Je (Not).

RHEXIDIUS Casey

6155 **R. canaliculatus** Lec. Ramapo, May (AM); Peekskill, Sep, *Sherm* (Lg); **LI:** Wyandanch, Oct 30 (Nic).

RHEXIUS LeConte

6158 **R. insculptus** Lec. Westfield, May (Not); Windsor, Je (Not).

BATRISODES Reitter

6174 **B. monstrosus** Lec. Buffalo (Z&R).

6174a **B. monstrosus** var. **ferox** Lec. **SI** (L&D); **LI:** Jamaica, Ap 12, in ant's nest under stone (Nic).

6188 **B. schaumi** Aubé. Greenwood L., May (Not).

6189 **B. riparius** Say. Peekskill, Mar, *Sherm* (Lg).

6190 **B. uncicornis** Csy. NYC (Csy).

6191 **B. scabriceps** Lec. **LI:** Flushing, *Dow* (Nic); Amagansett, Sep 21, from nest of *Formica exsectoides*, *Ds* (Nic).

6194 **B. lineaticollis** Aubé. **LI:** Jamaica (Nic).

6200 **B. globosus** Lec. Westfield, May (Not); Peekskill, *Sherm* (Lg); Buffalo (Z&R); Ramapo Mts., May 5 (AM); Suffern, May 26 (AM); **SI,** Ap, with ants under a log and also under bark (L&D); **LI:** common throughout the island, under bark, stones, etc. (Nic).

6201 **B. spretus** Lec. Windsor, Je (Not).

6202 **B. foveicornis** Csy. **LI:** Flushing, Amagansett, *Ds* (Nic).

6204 **B. punctifrons** Csy. Keene Val., May, Je, Jl (Not); **LI:** Hauppauge, Ap (Not).

6211 **B. denticollis** Csy. NY (Csy).

6212 **B. triangulifer** Bndl. **LI** (type locality): Wyandanch, Ap 3, from sphagnum bog (Nic).

6213 ?**B. nigricans** Lec. **SI,** Mar, Nov, on salt meadow (L&D).

6216 **B. striatus** Lec. Rochester (M&W); **SI,** Mar, Ap, Nov, several times on salt meadow (L&D); **LI:** Wyandanch, Nov 7 (Nic), Ap 3, *Shoe* (Nic); Queens (Dow).

NISAXIS Casey

6225 **N. tomentosa** Aubé. **LI:** Jamaica, May, *Pears* (Nic). *Reichenbachia minuta* Bndl. is identical with this species, fide Casey in Ann. N. Y. Acad. Sci., vol. 9, p. 593.

BRACHYGLUTA Thomson

6230 **B. abdominalis** Aubé. Peekskill, May 30, *Sherm* (AM); **SI,** Feb–May (L&D); **LI:** common in salt marshes at Flatbush, Brooklyn, Rockaway Beach, etc., Ap–May (Nic).

6232 **B. intermedia** Bndl. "NY" (Bndl).

6233 **B. labyrinthea** Csy. "NY" (Csy).

6235 **B. illinoisensis** Bndl. "NY" (Bndl).

6237 **B. intricata** Csy. "NY" (Csy).

6238 **B. terebrata** Csy. (*perforata* Bndl.). Madison Co (?), May 20 (H); **LI:** (Csy); Jamaica, May, *Pears* (Nic).

6247 **B. luniger** Lec. Peekskill, May, *Sherm* (Lg); **SI,** May, on seashore (L&D); **LI,** May 30, *Shoe* (Nic).

6248 **B. cavicornis** Bndl. Peekskill (Ds); **SI,** May, on salt meadow (L&D), Mar 17 (Frost).

B. elegans Bndl. **LI:** Jamaica (Frost).

REICHENBACHIA Leach

6251 **R. gemmifer** Lec. Keene Val., May (Not).

6257 **R. divergens** Lec. Peekskill, Mar 26 (AM), Ap (Sherm); **LI:** Jamaica, Ap 27, *Pears* (Nic); Queens (Dow); Wyandanch, Nov, in sphagnum, *Sf, Ds, Shoe* (Nic); Yaphank, Ap (Brb).

—— **R. minuta** Bndl. NY (Bndl).

6260 **R. congener** Bndl. Peekskill, Mar (Sherm); **SI** (L&D); **LI:** (Bndl); Jamaica, May, *Pears* (Nic).

6261 **R. facilis** Csy. **LI** (Csy); Queens, *Dow* (Nic); Jamaica, Ap 27, *Pears* (Nic); Wyandanch, Ap–Nov, in sphagnum bog, *Sf, Ds, Shoe* (Nic).

6262 **R. scabra** Bndl. **LI:** (Bndl); Wyandanch, Ap 3, rare, in sphagnum, *Shoe* (Nic).

6264 **R. rubicunda** Aubé. Westchester Co, May, *Dow* (Nic); **SI,** Feb 22 (L&D).

6265 **R. fusciventris** Csy. Westchester Co, May, *Dow*, as *gracilis* (Nic); **LI:** Brooklyn, May 8, in salt marsh, North Beach, Dec, Feb (Schott). Most of the *rubicunda* and *gracilis* records belong to this species (Nic).

R. insolita Csy. Suffern (AM).

6269 **R. gracilis** Csy. Keene Val., Je, Jl (Not).

6276 **R. puncticollis** Lec. **LI:** E. New York, May, Wyandanch, Ap, May (Ds, Sf), in sphagnum bog, Nov 7 (Nic); Queens, *Dow*.

6277 **R. borealis** Csy. Sylvan Beach, Je, Tivoli, May (Not); **LI:** Canarsie, Rosedale, Ap (Not).

6278 **R. corporalis** Csy. Keene Val., Je (Not).

6298 **R. polita** Bndl. "NY" (Bndl).

6300 **R. spatulifer** Csy. Mt. Marcy, Jl (Not).

6301 **R. propinqua** Lec. Keene Val., May, Je, Jl (Not).

RYBAXIS Saulcy

6309 **R. valida** Bndl. NY (Lg Cat.).

6310 **R. conjuncta** Lec. Ramapo (Sf); **LI:** Yaphank, Ap, *Brb* (Lg).

6311 **R. clavata** Bndl. West Pt. (Robn); Suffern (Sf); **LI,** usually common: Huntington, Je (Schott); Wyandanch, Ap–May, *Sf* (Nic).

6312 **R. mystica** Csy. Keene Val., May, Je, Jl, Lowville, Je (Not); **LI:** Rosedale, Ap (Not).

DECARTHRON Brendel

6314 **D. formiceti** Lec. **LI:** Brooklyn, *Dow*, probably in marshes on outskirts of city (Nic).

6317 **D. abnorme** Lec. West Pt. (Robn); Catskill (AM); Suffern (AM); **LI:** Brooklyn, Mar 31 (Shoe); Jamaica, May, *Pears* (Nic).

6319 **D. brendeli** Csy. **LI:** Yaphank, Mar (Brb).

6320 **D. longulum** Lec. Peekskill (Sherm); **SI** (L&D).

6321 **D. exsectum** Bndl. NY (Bndl).

6322 **D. strenuum** Bndl. **SI,** May (L&D).

—— **D. exiguum** Not. Windsor, Je (Not).

BYTHINOPSIS Raffray

6330 **B. tychoides** Bndl. Near NYC (Bndl); **LI:** Jamaica, Wyandanch, Mar, Ap, Oct, *Nic* (Sf), Ap 3, several specimens from sphagnum bog, *Shoe, Nic* (Nic).

TYCHUS Leach

6333 **T. minor** Lec. Ramapo (Sf); **LI:** Wyandanch, Ap (Sf), Nov 7 (Nic).

6338 **T. spiculifer** Csy. **LI:** Rosedale, Ap (Not).

PSELAPHUS Herbst

6350 **P. bellax** Csy. Mosholu, Sep (Sf); Suffern (Smith, N. J. List).

6351 **P. erichsoni** Lec. NY (Lec); **SI,** Feb (L&D).

6353 **P. fustifer** Csy. **SI** (L&D); **LI:** Brooklyn May 8, Bellport Je 8 under board in salt marsh (Nic).

PILOPIUS Casey

6359 **P. lacustris** Csy. Windsor, Je (Not); **SI,** Feb 22, *Woodr* (L&D).

6362 **P. piceus** Lec. Buffalo (Lec, Z&R); West Pt. (Robn); Suffern (AM); **LI:** Jamaica, May 8, *Pears*, Mar, *Schott*, Wading R., May 30, in sweeping at border of pond, *Nic*, Huntington, May, *Schott*, Wyandanch, May–Je, *Ds* (Nic).

6364 **P. granicollis** Csy. Madison Co, Mar 20, with query (H); **LI:** Willetts Pt. (Csy).

6367 **P. consobrinus** Lec. Buffalo (Z&R); Westchester Co, May, *Dow* (Nic).

CEDIUS LeConte

6375 **C. ziegleri** Lec. West Pt., Sep (Robn); **LI:** Brooklyn, *Dow* (Nic); north of Amagansett, Sep 21, in nest of *Formica exsectoides, Ds* (Nic).

6377 **C. spinosus** Lec. Cranberry L., Je 18 (Hatch); **LI:** Massapequa, Ap 26, *Eng* (Nic).

TYRUS Aubé

6382 **T. humeralis** Aubé. Newport (NYS); Westfield, May (Not); Gloversville, Mar (NYS); Schoharie (Not); **LI:** Central Pk., Ap, *Eng*, Bellport, Aug 13, under pine bark, *Nic*, Massapequa, Ap, *Shoe*, Wyandanch, Ap, *Shoe* (Nic).

TMESIPHORUS LeConte

6379 **T. costalis** Lec. Bellport, Je 28, sparingly under boards along border of oak woods (Nic).

FAMILY CLAVIGERIDAE

ADRANES LeConte

6388 **A. coecus** Lec. **SI**, Mar 29, with ants, Je 9, under bark of stump (L&D); **LI**, very rare (Nic); Jamaica, Je 10, in ant's nest under bark, *Pears* (Nic); Farmingdale, Ap, *Eng* (Nic); Wyandanch, Nov 7, one specimen found in sifting leaves around pond (Nic).

6389 **A. lecontei** Bndl. **SI** (L&D).

FAMILY PTILIIDAE [38]

(*Trichoptergidae*)

SUBFAMILY PTILIINAE

NANOSELLA Motschulsky

[6396 *N. fungi* Lec. Recorded from Ohio.]

[6397 *N. atrocephala* Dury. Recorded from Ohio.]

ACTIDIUM Matthews

6399 **A. crotchianum** Matth. Westfield, May (Not).

6401 **A. granulosum** Csy. Westfield, May (Not).

PTILIUM Erichson

[6410 *P. hornianum* Matth. Recorded from N. J.]

[6411 *P. fungicola* Csy. Recorded from Pa.]

[6412 *P. truncatum* Csy. Recorded from Pa.]

[6415 *P. ulkei* Matth. Recorded from N. J. and D. C.]

PTENIDIUM Erichson

6417 **P. pusillum** Gyll. Cranberry L., Je 29–Jl 3, in box of decaying fungi and in sweeping (H).

6421 **P. foveicolle** Lec. Cranberry L., Je 29, in sweeping (H); Keene Val., May (Not); Windsor, Je (Not).

6422 **P. glabratum** Mots. "NY" (Mots).

—— **P. simplicicolle** Not. Westfield, May (Not).

PTILIOLA Haldeman

6424 **P. collani** Mann. Keene Val., Je (Not).

[38] Definite records for this family are so few that the editors have included those species known from adjoining States, as a guide to the users of the list. These are italicized and placed within brackets.

PTERYX Matthews

6426 **P. brunnea** Lec. Keene Val., Jl (Not).
6428 **P. duvali** Matth. Schoharie (Not).

ACRATRICHIS Motschulsky

(*Trichopteryx* Kirby)

6432 ?**A. moerens** Matth. Voorheesville, Je, *Bish* (NYS); Little Pond, Orange Co, May, *Bish* (NYS).
6433 **A. aspera** Hald. Windsor, Je (Not).
[6435 *A. longipennis* Csy. Recorded from Pa.]
6436 **A. vicina** Matth. Westfield, May (Not).
6438 **A. sericans** Heer. (*ambigua* Matth.). Cranberry L., Je 25–Jl 3, in box of decaying fungi, identity queried (H); Schoharie (Not). Also recorded from Can.
6455 **A. discolor** Hald. Schoharie (Not); Windsor, Je (Not).
[6456 *A. fungina* Csy. Recorded from Pa.]
6457 **A. dohrni** Matth. NY (Lg Cat.); E. Aurora (Dnd).
6458 **A. glabricollis** Matth. NY (Lg Cat.).
6459 **A. haldemani** Lec. Newport, May (NYS); (?) Cranberry L., Je 30–Jl 2, in box of decaying fungi, and in sweeping, identity queried (H); Johnstown, Sep (NYS); Schoharie (Not); Delmar, Mar (NYS); Albany, Ap (NYS); **SI**, Ap, in sifting leaves (L&D). Also recorded from N. J. and Conn.
6465 **A. nanula** Mots. "NY" (Lg).

SMICRUS Matthews

6468 **S. filicornis** Fairm. Windsor, Je (Not).

PTINELLA Motschulsky

6470 **P. quercus** Lec. Keene Val., Jl (Not).

NEPHANES Thomson

[6472 *N. laeviusculus* Matth. Recorded from N. J.]
6473 **N. flaviventris** Mots. "NY" (Mots).

LIMULODES Matthews

6475 **L. paradoxus** Matth. "NY" (Lg Cat.). Also recorded from N. J.

FAMILY SCAPHIDIIDAE

SCAPHIDIUM Olivier

6482 **S. quadriguttatum** Say. Newport (NYS); Cranberry L., Jl 24 (H); Onondaga, Sep (NYS); Buffalo (Z&R); Mosholu, May (Ds); **SI**, Je 7, *Woodr* (L&D); **LI**: Orient, May (Ds).

6482b **S. quadriguttatum** var. **quadripustulatum** Say. "NY" (Lec).

6482c **S. quadriguttatum** var. **obliteratum** Lec. West Pt. (Robn).

6482d **S. quadriguttatum** var. **piceum** Melsh. Johnstown, Aug (NYS); Buffalo (Rein); Ithaca, Je 23, *Hamilton* (Vdyk); Schoharie (Not); L. George, Jl (NotAM); Albany, May (NYS); West Pt. (Robn); **SI,** Jan, Ap–Je, Nov (L&D); **LI:** Orient Pt., Je, *Lath* (NYS).

SCAPHISOMA Leach

6489 **S. convexum** Say. Newport (NYS); Gloversville, Oct (NYS); **SI** (L&D).

6502 **S. rubens** Csy. Windsor, Je (Not); Catskills (Csy); **LI** (Csy).

6504 **S. suturalis** Lec. Westfield, May (Not).

6506 **S. terminatum** Melsh. "NY" (Csy).

BAEOCERA Erichson

6513 **B. apicalis** Lec. Buffalo (Z&R).

6514 **B. punctipennis** Blatch. **SI,** Jl 23 (L&D).

6515 **B. concolor** Fab. Geneva, Aug (Cls); West Pt. (Robn); **SI,** Je 5, seashore (L&D).

6516 **B. congener** Csy. **LI** (Csy).

6517 **B. deflexa** Csy. Cranberry L., Jl 7 (H).

TOXIDIUM LeConte

6528 **T. gammaroides** Lec. **SI,** Je, Sep (L&D).

FAMILY HISTERIDAE

SUBFAMILY HOLOLEPTINAE

HOLOLEPTA Paykull

6530 **H. aequalis** Say (*fossularis* Say). Buffalo (Z&R); Ithaca, Sep (Dt); White Plains, Jl (Sq); **SI,** Je–Jl (L&D); **LI:** Orient Pt., May, *Lath* (NYS).

6531 **H. lucida** Lec. West Pt. (Robn); **LI** (Lec).

SUBFAMILY HISTRINAE

HISTER Linnaeus

6546 **H. arcuatus** Say. NYC (NYS); **SI,** Je, on seashore (L&D); **LI:** Coney I. (Schaupp); Rockaway Beach, Wading R., Je (Ds); Long Beach (Lg).

6554 **H. biplagiatus** Lec. Jamesport, Mar (NYS); **LI:** Rockaway (Lg).

6554a **H. biplagiatus** var. **instratus** Lec. Ithaca, Aug (Dt). Described from Kans and Ariz.

6569 **H. harrisii** Kby. Newport, Aug, Johnstown, May (NYS); Ithaca, May (CU); West Pt. (Robn).

6570 **H. stygicus** Lec. Newport, Je (NYS); Karner, Ap (NYS); **SI,** May (Sf, L&D).

6571 **H. interruptus** Beauv. Keene Val., Je (NYS); Cranberry L., Jl, on carrion (H); Fulton Co, May (HCU); Newport, Je (NYS); Rochester Jct., Je, *Leon* (HCU); Buffalo (Z&R); E. Aurora, Je (Dnd); Castile, *Brad* (Flet); Cattaraugus Co, Jl (Ds); Ithaca, May, Jl (H); Interlaken, Ap (NYS); Albany, May (NYS); Nassau, May (Yg); West Pt. (Robn); Ft. Montgomery, May, attacking dead caterpillar (Ds); **SI,** May (L&D).

6572 **H. obtusatus** Harr. Wilmington, Aug (Dt); Olcott, May–Je (Dt); Ithaca, McLean, May–Aug (Dt); West Pt. (Robn); **SI,** Feb, Je (L&D); **LI** (Lg).

6573 **H. immunis** Er. Cranberry L., Jl (H); Newport, May (NYS); Rochester Jct., Je, *Leon* (HCU); Penn Yan, Je, *Cy* (HCU); Renwick Swamp, Mar, *Bish* (NYS); Ithaca, Mar–Je (HCU); Karner, Je (Yg); Ashland (Frost); West Pt. (Robn); **SI,** May (L&D); **LI:** Orient Pt., Je, *Lath* (Yg).

6574 **H. memnonius** Say. Buffalo (Z&R); E. Aurora, Je (Dnd); Schoharie (Not), as *merdarius* Hoffm.; Nassau, Je (NYS); West Pt. (Robn); **LI:** Orient, *Lath* (NYS).

6586 **H. foedatus** Lec. Cranberry L., Je–Jl, on decaying fungi and on carrion (H); Newport, Je (Yg); Fourth L., Je (NYS); Johnstown, Sep (Yg); Buffalo (Z&R); E. Aurora, Jl–Aug (Dnd); Otto, Jl (HCU); Rock City, Je (HCU); Ithaca, May–Sep (H, Dt); Ashland (Frost); Peekskill (Ds).

6588 **H. hudsonicus** Csy. NY (Csy), type; Ringwood, May (Dt).

6590 **H. unicus** Csy. Catskills (Csy); **SI,** in toadstools (Sf, L&D).

6591 **H. marginicollis** Lec. Olcott, Mar, Oct (Dt); Rock City, Je (HCU); Ithaca, May (HCU); West Pt. (Robn).

6592 **H. cognatus** Lec. Newport, May (Yg); Johnstown, Sep, *Alex* (Yg); Ilion, Fourth L., Je (NYS); Buffalo (Z&R); Albany, May (NYS); Karner, Je (Yg); West Pt. (Robn).

6596 **H. abbreviatus** Fab. Cranberry L., Je–Jl, carrion (H); Pike, Jl (NYS); Potsdam (Houghton); Newport, May (NYS); Oswego, Aug, *Bks* (NYS); Oswego Falls, Jl (Bks); Syracuse, May, on cattle dung (H); Rochester Jct., Je, *Leon* (HCU); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je–Aug (HCU); McLean, Aug (Dt); Windsor, Je (Not); Albany, Poughkeepsie, May (NYS); West Pt. (Robn); **SI,** Je–Aug (L&D); **LI:** Orient Pt., Je, *Lath* (Yg).

6601 **H. furtivus** Lec. Wilmington, Aug (Dt); Buffalo (Z&R); Ithaca, Aug 7 (HCU); West Pt. (Robn); **SI,** Aug (L&D).

6602 **H. incertus** Mars. Ringwood, May (Dt).

6606 **H. depurator** Say. Cranberry L., Jl (H); Gloversville, Johnstown, Sep, *Alex* (Yg); Buffalo (Z&R); E. Aurora, Sep (Dnd); Ithaca, Aug (HCU); West Pt. (Robn); Ludlow (Thompson); **SI** (L&D).

6613 **H. defectus** Lec. "NY" (Lec).

6623 **H. bimaculatus** L. Johnstown, Nov, *Alex* (Yg); Ithaca, Mar (HCU); Peekskill, May (HCU); West Pt. (Robn); Ludlow, Ap (Thompson); **LI:** Coney I. (Schaupp). Under cattle or horse dung.

6624 **H. sedecimstriatus** Say. Syracuse, May, cattle dung (H); Buffalo (Z&R); Pike (Yg); Ithaca, Ap, Jl, Nov (H); Ringwood, May (Dt); Peekskill (Ds); West Pt. (Robn); **LI:** Orient, *Lath* (NYS).

6627 **H. americanus** Payk. Mooers, Sep (Not); Newport, Je (Yg); Old Forge, Jl (NYS); Rochester Jct., Je, *Leon* (HCU); Buffalo (Z&R); Pike, May (Yg); Ithaca, Ap–May (HCU); Delmar, Karner, Rensselaer, May (NYS); West Pt. (Robn); **SI,** Ap–May, Aug (L&D).

6627a **H. americanus** var. **perplexus** Lec. Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ap (Lg); West Pt. (Robn); **SI** (L&D).

6627b **H. americanus** var. **exaratus** Lec. West Pt. (Robn).

6630 **H. biabbreviatus** Csy. NY, type locality (Lg).

TERETRIOSOMA Horn

6637 **T. americanum** Lec. Cranberry L., May–Jl, from *Pinus strobus, Betula lutea,* and *Picea rubens* (H); Newport, May–Je, Fourth L., Je (Yg); Rochester (M&W); Buffalo (Rein); Albany, May (Yg); Ludlow, West Farms (Lg); **SI** (Lg).

TERETRIUS Erichson

6646 **T. latebricola** Lew. Central NY, *Wick* (Lew).

PLATYSOMA Leach

6651 **P. carolinum** Payk. Olcott, Je–Sep (Dt); Buffalo (Z&R); E. Aurora, Grand I., May (Dnd); Ithaca, May–Je (H, Dt); West Pt. (Robn); **SI** (L&D).

6652 **P. aurelianum** Horn. Olcott, Aug, Ithaca, Je (Dt); **LI:** Rockaway, May (Lg).

6653 **P. depressum** Lec. Axton, Je (M&H); Cranberry L., Je–Jl, under bark, herbage (H); Peru, Je (HCU); Newport, May (NYS); Syracuse, Ap–May, under stones and bark (H); Olcott, May–Je (Dt); Buffalo (Z&R); E. Aurora, May, Je, Sep (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Pike, May (NYS); Ithaca, May–Aug, Spring L., Jl (HCU); Cortland Co, Je (Dnd); Windsor, Je (Not); Wileyville, Ap–Sep (Dt); Karner, in galleries of *Tomicus calligraphus* (Felt); Manor, Oct (NYS); Clinton Hgts., Je (NYS); Shandaken, Je, *Cy* (NYS); Poughkeepsie, Je (Yg); Ft. Montgomery, May (Ds); West Pt. (Robn); **SI,** Mar–Oct, under bark of sycamore and beech (L&D); **LI:** Central Pk., on dead pines (Eng); Roslyn, Jl, Orient, *Lath* (NYS).

6656 **P. aequum** Lec. Vic. NYC (AM).

6657 **P. basale** Lec. Cranberry L., Je–Jl (H).

6658 **P. parallelum** Say. Cranberry L., Je, from *Pinus strobus* (H); E. Aurora, May (Dnd); Albany, Nov (Yg); Delmar, May (NYS); West Pt. (Robn); **SI,** Mar (L&D); **LI:** Central Pk., Ap, on dead pines (Eng).

6659 **P. coarctatum** Lec. Cranberry L., Je–Jl, from *Pinus strobus, Picea rubens,* and *Abies balsamea* (H); Olcott, Aug (Dt); Buffalo (Z&R); Ithaca, Jl, Nov (Dt); West Pt. (Robn); **SI,** Mar (L&D).

CYLISTIX Marseul

6661 **C. cylindrica** Payk. Round L., Jl (NYS); Manor, Oct (NYS); Ft. Montgomery, Jl (Lg).

6662 **C. attenuata** Lec. Buffalo (Z&R).

6663 **C. gracilis** Lec. Newport (Yg); Cranberry L., Jl, from *Pinus strobus* and *Picea rubens* (H).

—— **C. parvula** Csy. NY, type locality.

PHELISTER Marseul

6666 **P. subrotundus** Say. Cranberry L., Je 30, on herbage (H); Syracuse, May, under stones and flying (H); on dead hickory (Blkm); Honeoye Falls, Mar, *Leon* (HCU); Olcott, Je–Sep (Dt); Buffalo (Z&R); Westfield, May (Not); Ithaca, May, Aug (HCU); West Pt. (Robn); Shokan (Lg); **SI** (L&D); **LI**: Coney I. (Lg).

6666a **P. subrotundus** var. **frosti** Carn. NY, type locality.

6673 **P. vernus** Say. West Pt. (Robn).

6674 **P. saunieri** Mars. West Pt. (Robn); **SI** (L&D); **LI**: Flatbush, May, *Zab* (AM).

6678 **P. hospes** Lew. Ulster Co (Lew).

6679 **P. conquisitus** Lew. "NY" (Lew).

PSILOSCELIS Marseul

6684 **P. harrisi** Lec. Johnstown, May (NYS); West Pt. (Robn); Peekskill, Ap (Sherm); Katonah, under the name *planipes* (Sherm).

6685 **P. incurva** Csy. "NY" (Csy).

EPIERUS Erichson

6696 **E. pulicarius** Er. Rochester (M&W).

XESTIPYGE Marseul

6705 **X. geminatum** Lec. Olcott, May (Dt); **SI** (Sf, L&D).

CARCINOPS Marseul

6714 **C. quatuordecimstriata** Steph. Rochester (M&W); Albany, May (Yg).

PAROMALUS Erichson

6723 **P. aequalis** Say. Syracuse, Ap, under bark (H); Rochester, (M&W); Buffalo (Z&R); Ithaca, Ap, Sep (H,Dt); West Pt., Ap, *Robn* (Ds); **SI**, Ap (L&D).

ISOLOMALUS Lewis

6724 **I. bistriatus** Er. Cranberry L., Jl, from *Pinus strobus* (H); Ithaca, Mar–Ap (Dt); West Pt. (Robn); vic. NYC (AM,Palm Coll.).

DENDROPHILUS Leach

6732 **D. punctulatus** Say. Lansingburg, Oct (Yg); Albany, May (Yg); West Pt. (Robn).

CAEROSTERNUS LeConte

6734 **C. americanus** Lec. Fourth L., Je (NYS).

HETAERIUS Erichson

6745 **H. brunneipennis** Rand. Ithaca, May (Dt); Catskills, Ap (Ang); Bronxville (Wheeler); **SI**, from ant's nest, Ap (L&D); **LI:** Half Way Hollow Hills, Jl (Ds).

ONTHOPHILUS Leach

6755 **O. alternatus** Say. Peekskill, Aug (Lg); Rockland Co, Sep (Lg); **SI** (L&D).

PLEGADERUS Erichson

6756 **P. sayi** Mars. Cranberry L., Jl (H).

6765 **P. transversus** Say. Newport, May (Yg); Cranberry L., Jl (H); Ithaca, Ap (Dt); Albany, Ap (NYS); Karner, in galleries of *Tomicus calligraphus* (Felt); **SI**, Ap, *Shoe* (L&D); **LI:** Central Park, Ap, on dead pine (Eng); Manorville, Oct, on dead pine; Pinelawn, May (Ds).

BACANIUS LeConte

6772 **B. punctiformis** Lec. Newport, with query (Yg); Buffalo (Z&R); Lancaster, *MCV* (Frost); Ithaca, Ap (Dt).

6773 **B. tantillus** Lec. Westfield, May (Not).

6775 **B. misellus** Lec. "NY" (Lec).

ACRITUS LeConte

6781 **A. politus** Lec. Olcott, Ap (Dt); Buffalo (Rein); Westfield, May, Windsor, Je (Not); **SI**, Oct, in ant hill (L&D).

6790 **A. exiguus** Er. Syracuse, May, under bark (H); Rochester (M&W); Ithaca, Nov 14 (HCU); **SI**, Feb–Oct, under bark of beech (L&D).

6797 **A. strigosus** Lec. Olcott, Sep (Dt); Buffalo (Z&R); Ithaca, Ap (Dt).

6802 **A. sternalis** Csy. NY, type locality (Lg).

SAPRINUS Erichson

6819 **S. posthumus** Mars. Rochester (M&W); Olcott, May–Je (Dt); Ithaca, Sep (Dt); West Pt. (Robn).

6820 **S. obsoletus** Csy. NY, type locality (Lg).

6827 **S. lugens** Er. Cranberry L., Jl, on carrion (H); Rochester (M&W).

6828 **S. imperfectus** Melsh. Newport, Je (NYS).

6829 **S. pennsylvanicus** Payk. Rochester (M&W); **SI**, Je–Jl, often seen on seashore (L&D); **LI:** Shinnecock Hills (Ds); Orient, *Lath* (NYS).

6831 **S. oregonensis** Lec. var. **distinguendus** Mars. Axton, Je (M&H); Cranberry L., Jl, on carrion (H); West Pt. (Robn).

6836 **S. assimilis** Payk. Cranberry L., Jl, on carrion (H); Newport, Oct (Yg); Johnstown, Je (NYS); Gloversville, Sep; Buffalo (Z&R); Pike, Jl; Ithaca, May–Sep (H, Dt); McLean, Aug (Dt); Peekskill (Ds); West Pt. (Robn); **SI**, May–Aug (L&D); **LI**: Oyster Bay, Mar (NYS); Orient, Je, *Lath* (NYS).

6838 **S. conformis** Lec. Rochester (M&W); Buffalo (Z&R); Ithaca, May, Sep (H,Dt).

6875 **S. sphaeroides** Lec. **SI**, Jl, *Woodr* (L&D).

6885 **S. fraternus** Say. Rochester (M&W); Buffalo (Z&R); NYC, May (NYS); **SI**, Je–Jl, often on seashore (L&D); **LI**: E. New York, Rockaway, Je (Ds).

6896 **S. patruelis** Lec. Rochester (M&W); Newport (Yg); Pike (Yg); **SI**, Je–Jl (L&D).

6901 **S. dimidiatipennis** Lec. Buffalo (Z&R); vic. NYC (AM-Palm); **SI**, Je–Aug (L&D).

GNATHONCUS Duval

6908 **G. communis** Mars. Newport (Yg); Olcott, May (Dt); Albany, type (Dt); **LI**: Orient Pt., May, *Lath* (Yg).

6909 **B. deletus** Lec. Peekskill, *Sherm* (Csy).

FAMILY LYCIDAE

CALOPTERON Guérin-Méneville

6925 **C. terminale** Say. Keene Val., Aug (NYS); L. George, *Zab* (AM); Karner, Aug (NYS); West Pt. (Robn); White Plains, Aug (Sq); Van Cort. Pk., Aug, *Pears* (Nic); **SI**, Jl–Aug (L&D); **LI**, Aug, *Eng* (Sf).

6926 **C. reticulatum** Fab. Adirondacks (Felt); Newport (NYS); Buffalo (Z&R); Naples (NYS); Canandaigua L., Aug, *Bish*, Canandaigua, Jl (NYS); Penn Yan (FletCU); Ithaca, Je–Aug (CU); Hague, Aug, *Leon* (NYS); Karner, Aug (NYS); Albany, Jl, Lansingburg, Poughkeepsie (NYS); West Pt. (Robn); White Plains, Aug (Sq); Van Cort. Pk., Aug (Nic); **SI**, Je, Aug (L&D); **LI**: Bellport, Je (Nic).

CAENIELLA Cockerell

6929 **C. dimidiata** Fab. Axton, Je (M&H); Newport, *Yg* (NYS); Cranberry L., Jl (Drk); Gloversville, Jl (NYS); Caroline, May, Ithaca, Jl–Aug (FletCU); Catskills, Je, *Pears* (Nic); **SI**, Je, Aug (L&D).

CELETES Newman

6931 **C. basalis** Lec. Axton, Je (M&H); Big Moose, Jl, Newport, Je, *Yg* (NYS); Chapel Pond, Je, *Bish* (NYS); Buffalo (Z&R); Ithaca, Je–Jl (FletCU); Catskills, Je (Nic); West Pt. (Robn); **SI**, Je (L&D); **LI**: Bellport (Nic), Jl, *Eng* (Sf).

LOPHEROS LeConte

6933 **L. fraternus** Rand. Newport, *Yg* (NYS); Buffalo (Z&R).

EROS Newman

6935 **E. thoracicus** Rand. Saranac Inn, Jl (FletCU); Keene Val., Jl (NYS); **SI,** *Joutel* (L&D).

6939 **E. aurora** Hbst. Mt Whiteface, on trail, Jl (Ds); L. Clear, *Yg* (NYS); Newport (NYS); Wilmington, Je (NYS); Gloversville, May (NYS); Boston, under bark, scarce, Ap (Dnd); Westfield, May (Not); Rock City, Je (FletCU); Castile, *Brad* (Flet); Ithaca, Ap–Je (FletCU); McLean, May (Vdyk,Dt); Slide Mt., Je, *Leon* (NYS); Catskills, Je *Pears* (Nic); West Pt. (Robn); **SI:** Great Kills, Ap (L&D); **LI:** Jamaica (Nic).

6940 **E. sculptilis** Say. Old Forge, Jl (FletCU); Woodworth's L., Dug Mt., Newport, Jl–Aug (NYS); Hamburg, Je, *MCV* (Frost); Buffalo (Z&R).

6941 **E. humeralis** Fab. Peru, Je (FletCU); Newport, Je (NYS); Buffalo (Z&R); Albany, Je (NYS).

6942 **E. trilineatus** Melsh. Newport (NYS); Naples, Jl, *Bish* (NYS); Catskills, Je, *Pears* (Nic); Callicoon (AM); **SI,** Jl (L&D); **LI:** Je, *Eng* (Sf); Flatbush, *Zab* (AM).

6943 **E. crenatus** Germ. Newport, Je (NYS); Dug Mt., Aug, *Yg* (NYS); Buffalo (Z&R); Broadalbin, Je, *Yg* (NYS); Big Ind. Val., *Pears* (Sf, Nic).

PLATEROS Bourgeois

6944 **P. timidus** Lec. Ithaca, Jl, *Dt* (Vdyk,Dt); **SI,** Je (L&D).

6945 **P. modestus** Say. Newport, Dug Mt., Elm L., Augur Flats, Jl–Aug (NYS); Buffalo (Z&R); Coy Glen, Ithaca, Aug (Vdyk,Dt); McLean, Jl (FletCU); Nyack, Je (Ds); **SI,** Je–Jl (L&D).

6946 **P. canaliculatus** Say. Newport, Je (NYS); Buffalo (Z&R); Ithaca, Jl (Vdyk,Dt); Ithaca, Jl (Vdyk,Dt); Karner, Jl (NYS); **SI,** Jl (L&D); **LI:** Flatbush, Jl, Yaphank, Je, *Eng* (Sf); Bellport, Je, *Pears* (Nic).

6949 **P. lictor** Newn. (*mollis* Lec.). Keene Val., Newport, Jl (NYS); E. Aurora, Jl, rare (Dnd); Buffalo (Z&R); White Plains, Je–Jl (Sq); **LI:** Bellport, Je (Nic).

6950 **P. floralis** Melsh. Cattaraugus Co, Jl (Ds); McLean, Jl (FletCU); West Pt. (Robn); **SI** (L&D).

CALOCHROMUS Guérin-Méneville

6958 **C. perfacetus** Say. Plattsburg, Jl (Ds); Clinton Co, Je, *Mix&Everett* (FletCU); White Plains, Je–Jl (Sq); **LI:** Bellport, Je (Nic); Farmingdale, Je, *Morrow* (FletCU); Yaphank, Wading R., Jl (Sf).

FAMILY LAMPYRIDAE

CALYPTOCEPHALUS Gray

6967 **C. bifaria** Say. Newport, Je (NYS).

LUCIDOTA Laporte

6971 **L. atra** Fab. Keene Val., L. Placid, Wells, Je (NYS); Potsdam, May, Ilion (NYS); Newport, Je (NYS); Cranberry L., Je–Jl (H); Long L. (AM); Chapel Pond, Je, *Bish* (NYS); Niagara Falls, May, larva;

Buffalo (Z&R); Pike, Je (NYS); Ithaca and vic., including Ringwood, Jl–Aug (Vdyk); Scotia, Je, Schenectady, Jl (NYS); Karner, Je, Kenwood, Jl; Schodack Landing, Je; L. Minnewaska (Ds); West Pt. (Robn); Poughkeepsie, Je, Mosholu, Aug (NYS); Ramapo, Je (Ds); Nyack (AM); **SI,** Je (L&D); Jamaica, Je (NYS); Brooklyn (Vdyk,Dt); Flatbush (AM).

6971a **L. atra** var. **tarda** Lec. Castile, *Brad* (Flet); "NY" (Horn Coll.).

6972 **L. punctata** Lec. Newport, Je, Long L., Aug, Ilion, May (NYS); Ithaca, Jl 8 (Vdyk,Dt); Windsor, Je (Not); Indian Fields, Jl (NYS).

6975 **L. corrusca** L. Mooers. Sep (Not); Elizabethtown, Keene Val., Ausable Forks, Aug (NYS); Adirondacks (Felt); Mt. Whiteface, 1500 ft., Aug 25 (Dt); Cranberry L., Je–Jl (H); White L., L. George, *Zab* (AM); E. Aurora, Je, on beech trunks (Dnd); Pike, Ap (NYS); Castile, May, *Brad* (Flet); Montour Falls, Je (H); Ithaca, McLean, Ap 8–Aug 25 (Dt); Windsor, Je (Not); Trenton Falls, Je (NYS); Karner, Voorheesville, May (NYS); Ballston Spa, Je, Clinton Hgts., Mar (NYS); Debruce (Ds); West Pt. (Robn); Poughkeepsie, Jl, Gilman, Ap, Mt. Kisco, Oct, Slide Mt., Je (NYS); **SI,** Mar–Oct (L&D); **LI:** Orient, *Lath* (NYS).

6975a **L. corrusca** var. **autumnalis** Melsh. Buffalo (Z&R); Nyack (Ds); **SI,** Ap–Jl (L&D); **LI:** Bellport, Aug 30 (Nic).

6975b **L. corrusca** var. **lacustris** Lec. Cranberry L., Je, Sep (Drk); Buffalo (Z&R).

6976 **L. luteicollis** Lec. "NY" (Horn Coll.). Described from Fla.

6977 **L. fenestralis** Melsh. Axton, Je (M&H); White L. (AM); Erie and Allegany Counties, Jl (Dnd); Ithaca, Je–Aug (Vdyk); **LI:** Flatbush (AM).

6978 **L. nigricans** Say. Johnstown, Jl (NYS); Ithaca, Jl–Aug (Vdyk); West Pt. (Robn).

6979 **L. decipiens** Harr. Keene Val., Jl (NYS); Cranberry L., Aug (Drk); White L., *Zab* (AM); Ithaca, Jl (Vdyk); Stony Pt., Je (Ds); Newcastle and Van Cort. Pk. (AM); **SI,** Je–Jl (L&D).

PYRACTOMENA LeConte

6984 **P. angulata** Say. Keene Val., Jl (NYS); Cranberry L., Je 20 (H); Buffalo (Z&R); Pike, May (NYS); Castile, Je, *Brad* (Flet); Ilion, May, Canajoharie, Je (NYS); Allegany Pk., Jl (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Jl (Vdyk); Windsor, Je (Not); Karner, Jl Nassau, May (NYS); Catskills, Aug, *Pears* (Nic); Poughkeepsie, Je (NYS); West Pt. (Robn); Nyack, Je (Ds).

6985 **P. borealis** Rand. Keene Val., Jl (NYS); Axton, Je (M&H); Buffalo (Z&R); Catskills, Jl, *Pears* (Nic).

6987 **P. lucifer** Melsh. Newport, Pike (NYS); Sullivan Co (Ds).

PHOTINUS LeConte

6988 **P. consanguinius** Lec. Newport, Je (NYS); Ithaca, Ringwood, Je–Aug (Dt); Poughkeepsie, Je (NYS); Nyack, Je (Ds); **SI,** Je–Jl (L&D); **LI:** Bellport, Je (Nic); Flatbush, Forest Pk. (AM).

6990 **P. ardens** Lec. Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ringwood, Jl (Dt).

6996 **P. pyralis** L. Oswego, Jl, *Bks* (NYS); Ithaca, Jl (Vdyk); **SI** (L&D); **LI:** Parkville, Flatbush (AM).

6997 **P. marginellus** Lec. Rochester, Jl, Geneva, Je (Cls); E. Aurora, Jl (Dnd); Ithaca, Jl (Dt); Van Cort. Pk. (AM); **LI:** Flatbush (AM).

6999 **P. scintillans** Say. Newport, Jl (NYS); W. Winfield, Je, *Leon* (NYS); Buffalo (Z&R); Avon, Je (NYS); Cattaraugus Co (Ds); Albany, Karner, Je–Jl, Watervliet Reservoir, Aug, *Leon*, Rensselaer, Middleburg, Jl (NYS); Normansville, Poughkeepsie, Jl (NYS); West Pt. (Robn); Stony Pt. (Ds); **SI,** Je–Aug, the common "firefly" of lawn and shrubbery (L&D).

PHOTURIS LeConte

7013 **P. pennsylvanica** DeG. Keene Val., Jl, *Leon* (NYS); Newport, Cranberry Cr., Je (NYS); Conesus L., Aug (Cls); Erie Co, Jl, scarce (Dnd); Buffalo (Z&R); Middlesex, Aug (Cls); Ithaca, Jl (Vdyk); Windsor, Je (Not); Albany, Nassau, Thompson, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu (AM); Cornwall, Oct (Lint); **SI,** Je–Jl, makes the brighter greenish light among the higher trees (L&D); **LI:** Orient, Ap, *Lath* (NYS); Shinnecock Hills (Ds); Flatbush (AM).

FAMILY PHENGODIDAE

PHENGODES Illiger

7023 **P. plumosa** Oliv. Ithaca, Je, *Babiy* (Kngt); West Pt. (Robn); **SI,** Je, male (L&D) (H. S. Barber believes this may be distinct from the *plumosa* of the South); **LI:** Flatbush, *Zab* (AM); Yaphank, May, *Eng* (Sf).

TYTTHONYX LeConte

7034 **T. erythrocephala** Fab. Boston, Je, rare (Dnd); **LI:** Yaphank, Jl, *Eng* (Sf).

OMETHES LeConte

7037 **O. marginatus** Lec. **SI,** Je (L&D).

FAMILY CANTHARIDAE

CHAULIOGNATHUS Hentz

7051 **C. pennsylvanicus** DeG. (*americanus* Forst.). SOLDIER BUG. Keene Val., Aug (NYS); Hope, Aug, *Bks* (NYS); Newport, Aug (NYS); Cranberry L., Jl (H); Elka Pk., Aug (Drk); Buffalo (Z&R); Batavia, Jl–Sep (Kngt); Pike, Aug (NYS); Castile, *Brad* (Flet); Ithaca, McLean, Jl–Sep (Vdyk); L. George (AM); Karner, Aug (NYS); Poughkeepsie, Je (NYS); Debruce (Ds); West Pt. (Robn); Pine I. (AM); Mosholu, Je (NYS); White Plains, Aug–Sep (Sq); **SI,** Aug–Oct (L&D); **LI:** Mineola, Jl, *Wolf* (NYS).

7052 **C. marginatus** Fab. Schodack Landing, Je (NYS); Poughkeepsie, May–Je (NYS); Red Hook, Je, *Leon* (NYS); West Pt. (Robn); **SI,** Je–Jl (L&D); **LI:** Brooklyn (Vdyk, Dt); Bergen Beach (Ds); Flatbush (AM).

PODABRUS Westwood

7055 **P. tricostatus** Say. Keene Val., Jl (NYS); Buffalo (Z&R); Pike (NYS); Montour Falls, Je (H); Ithaca, Jl 6 (Vdyk); Trenton Falls, Je (NYS); Schenectady, Albany, Poughkeepsie, Je (NYS); Red Hook, Je, *Leon* (NYS); West Pt. (Robn); **SI**, Je–Jl (L&D); **LI**: Bellport, Mar 10 (Nic); Jamaica, Je, *Wolf* (NYS).

7056 **P. rugulosus** Lec. E. Aurora, May–Je (Dnd); Buffalo (Z&R); Schuyler Co, Je, with query (H); Ithaca, Jl 5 (Vdyk); Windsor, Je (Not); West Pt. (Robn); L. Waccabuc, Nyack, Rye, *Lutz* (AM); **SI**, Je–Jl (L&D); **LI**: Flatbush (AM).

7057 **P. frater** Lec. Big Moose, Je (NYS); Buffalo (Z&R); Ithaca, Je, Coy Glen, Aug (Vdyk).

7058 **P. basillaris** Say. Buffalo (Z&R); E. Aurora, Je–Jl (Dnd); Ithaca, Je (Vdyk); Windsor, Je (Not); Poughkeepsie, Je (Yg); Tivoli, Je (NYS); Dunwoodie (AM); West Pt. (Robn); Ramapo, Je (Ds); **SI**, May–Je (L&D).

7058a **P. basillaris** var. **discoideus** Lec. "NY" (Lec).

7061 **P. diadema** Fab. Axton, Je (M&H); Cranberry L., Je 14–27 (H); Howland I., Je (Vdyk); Buffalo (Z&R); Erie Co, Je–Jl, scarce (Dnd); Ithaca, Ringwood, Inlet Val., Je–Jl (Vdyk); Ft. Montgomery, May (Ds); West Pt. (Robn); White Plains, Je–Jl (Sq); **SI**, Je (L&D).

7062 **P. modestus** Say. Axton, Je (M&H); Newport, Je–Jl (NYS); Ilion, May (NYS); Cranberry L., Je 30 (H); White L. (AM); Buffalo (Z&R); Erie Co, Je–Jl, scarce (Dnd).; Pike, Je (NYS); Castile, *Brad* (Flet); Ithaca, May–Jl (Vdyk); Montour Falls, Je (H); McLean, Inlet Val., Je–Jl (Vdyk); Windsor, Je (Not); Trenton Falls, Albany, Je (NYS); Riders Mills, May, *Bish* (NYS); Catskills, *Pears* (Nic); White Plains, Je–Jl (Sq); West Pt. (Robn); vic. NYC, *Palm* (AM); **SI**, May–Jl (L&D).

7062a **P. modestus** var. **flavicollis** Lec. Cranberry L., Jl (H); Valley Falls, Je (NYS); Nassau, May, Poughkeepsie, Je (NYS); West Pt. (Robn).

7066 **P. tomentosus** Say. Albany, Je–Aug, Nassau, Je (NYS); West Pt. (Robn).

7068 **P. brunnicollis** Fab. Ithaca, Jl (Dt); Inlet Val., Aug 12 (Vdyk); Poughkeepsie, Je (NYS).

7071 **P. limbellus** Lec. Poughkeepsie, Je (NYS).

7072 **P. punctatus** Lec. Westfield, May (Not); Windsor, Je (Not); Catskills, *Pears* (Nic).

7074 **P. puncticollis** Kby. Monadnock, Je (NYS).

7078 **P. piniphilus** Esch. L. Tear, Jl (NYS).

7080 **P. puberulus** Lec. Cranberry L., Je 9 (H).

7082 **P. simplex** Couper. Karner, Je (NYS).

7083 **P. laevicollis** Kby. Buffalo (Z&R).

7086 **P. pattoni** Lec. Newport, Je (NYS); Westfield, May (Not); Freeville, Je 5 (Vdyk). Described from Calif.

CANTHARIS Linnaeus

(*Telephorus* Schaeffer)

7091 **C. dentiger** Lec. Elizabethtown, Je, Newport, May (NYS); Long L. (Ds); Thompson, May, *Leon* (NYS); Pike, Je (NYS); Castile, *Brad* (Flet); Valley Falls, May (NYS); Ithaca, May–Je (Vdyk); Enfield Glen, May (NYS); Windsor, Je (Not); Schenectady, Je, Albany, May, Karner, Je, Nassau, May, Kinderhook, Je, Shandaken, Je, Poughkeepsie, May (NYS); West Pt. (Robn); Bronx Pk., Suffern (AM); NYC (AM).

7092 **C. excavatus** Lec. Poughkeepsie, Je, Ionia (NYS); West Pt. (Robn); **SI** (L&D).

7093 **C. vilis** Lec. "NY" (Lec).

7095 **C. walshi** Lec. Ithaca, Jl (Vdyk).

7096 **C. fraxini** Say. Axton, Je (M&H); Mt. McIntyre, Jl, *Leon* (NYS); Speculator, Aug, Northville, L. Clear, Je (NYS); Wanakena, Aug (Drk); Buffalo (Z&R); Castile, May, *Brad* (Flet); Windsor, Je (Not); Catskills, Jl, *Pears* (Nic).

7097 **C. carolinus** Fab. Axton, Je (M&H); Keene Val., Jl, Newport, May (NYS); Cranberry L., Je–Jl (H); Long L. (Ds); Buffalo (Z&R); Erie Co, Je, common (Dnd); Pike, Je (NYS); Westfield, Je (NYS); Schuylerville, Je (NYS); Montour Falls, Je (H); Ithaca, Ringwood, McLean, Je–Jl (Vdyk); Windsor, Je (Not); Albany, Rensselaerville, May, Nassau, May, Schodack Landing, Je, Kinderhook, Je, Poughkeepsie, Je (NYS); West Pt. (Robn); Nyack, Ramapo (Ds); Van Cort. Pk. (AM); **SI** (L&D).

—— **C. neglectus** Fall. Albany, Je (NYS).

7098 **C. lineola** Fab. E. Aurora, May–Je, scarce (Dnd); Karner, Je (NYS); **SI**, Je (L&D); **LI:** Bellport, Aug (Nic); Orient, *Lath* (NYS).

7100 **C. nigritulus** Lec. Chazy L., Rainbow L., Je (NYS); Cranberry L., Je 9–Jl 10 (H); Port Byron, Je (Vdyk); Howland I., Je (Vdyk); Ithaca, Freeville, Je, Ringwood, Jl 7 (Vdyk); Windsor, Je (Not); Suffern (AM); **SI**, Je (L&D).

7101 **C. rectus** Melsh. (*pusillus* Lec.). Newport, Je (NYS); Buffalo (Z&R); Ithaca, Ringwood, Inlet Val., Je–Jl, Coy Glen, Aug 2 (Vdyk); Albany, Je, Poughkeepsie, May (NYS); Catskills, Je 25 (Nic); Nyack, Je (Ds); **SI**, Je (L&D); **LI:** Bellport (Nic).

7105 **C. flavipes** Lec. Buffalo (Z&R); Castile, *Brad* (Flet); Windsor, Je (Not).

7106 **C. scitulus** Say (*imbecilis* Lec.). Keene Val., Aug (NYS); Wells, Jl, Newport, Je (NYS); White L., *Zab* (AM); Buffalo (Z&R); Aurora, *Zab* (AM); Ithaca, Ringwood, Butternut Cr., Jl (Vdyk); Coy Glen, Aug 2 (Vdyk); Karner, Jl (NYS); Catskills, *Pears* (Nic); Ft. Montgomery (Ds); West Pt. (Robn); Van Cort. Pk. (AM); **SI**, Je–Aug (L&D); **LI:** Flatbush (AM).

7107 **C. pusillus** Lec. **SI**, Jl (L&D).

7110 **C. longulus** Lec. Niagara (Lec).

7113 **C. rotundicollis** Say. Axton, Je (M&H); Essex Co, Aug, Elizabethtown, Jl, Mt. McIntyre, Jl, Newport, Je, Wells, Jl, Saranac Inn, Jl (NYS); Cranberry L., Je–Jl (H); Chapel Pond, Je, *Leon* (NYS); Buffalo (Z&R); Cincinnatus, Jl (Flet, Dnd); Ithaca, Jl (Vdyk); Windsor, Je (Not); Corinth, Albany, Karner, Je (NYS); West Pt. (Robn); **SI**, May–Jl (L&D).

7119 **C. tuberculatus** Lec. (*impressus* Lec.). Cranberry L., Je 11 (H); E. Aurora, Protection, May–Je, frequent (Dnd); Ithaca, Je (Vdyk); Albany, Karner, Nassau, Poughkeepsie, May (NYS); N. Chatham, Je (NYS); West Pt. (Robn); Ft. Montgomery, Ramapo (Ds); **SI,** May–Je (L&D); **LI:** Babylon (AM).

7119a **C. tuberculatus** var. **armiger** Couper. Buffalo (Z&R).

7121 **C. bilineatus** Say. Axton, Je (M&H); Newport, May, Wells, Je (NYS); Cranberry L., Je 16 (H); Herkimer Co, Feb, larvae (as *bilineatus?*) (Lint); Syracuse, May (H); Buffalo (Z&R); E. Aurora, May–Je, common, in beating (Dnd); Westfield, May (Not); Castile, May, *Brad* (Flet); Windsor, Je (Not); Ithaca, May–Je (Dt); Corinth, Albany, Poughkeepsie, May (NYS); Germantown, Je, *Leon* (NYS); West Pt. (Robn); **SI,** Ap–May (L&D); **LI:** Orient, *Lath* (NYS).

7127 **C. marginellus** Lec. Cranberry L., Je (H). Described from Ga. and Fla.

POLEMIUS LeConte

7137 **P. laticornis** Say. Rensselaer, Jl (NYS); **SI,** Je (L&D).

7139 **P. limbatus** Lec. **SI,** Je (L&D).

SILIS Latreille

7152 **S. percomis** Say. Newport, Ilion, May (NYS); Cranberry L., Je (H); Buffalo (Z&R); Catskills, *Pears* (Nic); West Pt. (Robn); **LI:** Orient Pt., May, *Lath* (NYS).

7157 **S. spathulata** Lec. "NY" (Lg Cat.).

7161 **S. bidentatus** Say. Newport, Ilion, May (NYS); Wells, Jl, Hope, Salem, Phoenicia, Aug (NYS); West Pt. (Robn); **SI,** May–Je (L&D).

TRYPHERUS LeConte

7169 **T. latipennis** Germ. Northampton, Je, Oswego, Jl (NYS); Ithaca, Aug 4 (Vdyk); West Pt. (Robn); **SI,** Je–Jl (L&D); **LI:** Jamaica, *Pears* (Nic).

MALTHINUS Latreille

7172 **M. occipitalis** Lec. West Pt. (Robn).

MALTHODES Kiesenwetter

7178 **M. concavus** Lec. "NY" (Lec); Ft. Montgomery (Ds).

7179 **M. fragilis** Lec. (*transversus* Lec.). Cranberry L., Je–Jl (H); Niagara (Lec); vic. NYC, *Palm* (AM).

7180 **M. exilis** Melsh. Windsor, Je (Not); "NY" (Melsh); **SI:** Buck's Hollow, Jl 12 (L&D).

7188 **M. fuliginosus** Lec. Windsor, Je (Not).

7193 **M. parvulus** Lec. "NY" (Lec); Cranberry L., *Htly* (H).

FAMILY **MELYRIDAE**

SUBFAMILY **MALACHIINAE**

COLLOPS Erichson

7196 **C. tricolor** Say. Catskills, Van Cort. Pk., Je–Jl, *Pears* (Nic); Ft. Montgomery, Jl (Ds); West Pt. (Robn); **LI**, Je, *Eng* (Sf).

7207 **C. nigriceps** Say. "NY" (Lec), as *eximius* Er.; Suffern (AM); **SI**, Je–Sep (L&D); **LI**: Orient Pt., Aug (NYS); Rockaway, Yaphank, Je, *Eng* (Sf); Islip, *Johnson* (Sf); Babylon (AM); Wading R., Jl–Aug (Ds).

7215 **C. vittatus** Say. Axton, Je (M&H); Potsdam (NYS); Saranac Inn, Newport, Jl (NYS); Cranberry L. (H); **SI**, Je (L&D); **LI**: Bellport, Je (Nic); Orient Pt., Sep, *Lath* (NYS); Shinnecock Hills, Jl (Ds).

7227 **C. quadrimaculatus** Fab. Newport (NYS); Essex Co, Jl (NYS); Gloversville, Jl (NYS); Syracuse, Jl (NYS); Olcott, Jl–Sep (Dt); Buffalo (Z&R); Batavia, Jl–Aug (Kngt); Aurora (AM); Geneva, Avon, Jl–Aug (Cls); Westfield, Jl (NYS); Ithaca, Jl 2, *Yuasa* (Vdyk); Ringwood, Jl (NYS); Schenectady, Jl, Scotia, Je (NYS); North Creek, Aug, Nassau, Jl (NYS); West Pt. (Robn); Ft. Montgomery, Jl (Ds); White Plains, Je, *Sq* (Frost); **SI**, Jl (L&D); **LI**: E. New York, Je, *Martin* (Sf); Rockaway Beach, Je, *Eng* (Sf); Yaphank, May–Sep, *Eng* (Sf); Long Beach, Orient (AM); Central Pk., Wading R., Half Way Hollow Hills (Ds).

MALACHIUS Fabricius

7238 **M. aeneus** L. Potsdam, May, Speculator, Je (NYS); Canton, L. Pleasant, Je (Babiy); L. Clear, Je, Ogdensburg, Jl (NYS); Northville, Je (NYS); Cranberry L., Je 18, on blossoms of trefoil and flying about camp (H); Syracuse, Je; Castile, May, *Brad* (Flet); Batavia, Je (Kngt); Geneva, Avon, Ap–May (Cls); Schuylerville, Je (NYS); Ithaca; Ringwood, Jl 3, *Yuasa* (Vdyk); Windsor, Je (Not); Waterford, May, Albany, Je, Nassau, May (NYS).

ANTHOCOMUS Erichson

7276 **A. erichsoni** Lec. Buffalo (Z&R); **SI**: Old Place, Je (L&D).

7277 **A. flavilabris** Say. NYC and vic. (Ds).

7279 **A. apicalis** Say. West Pt., Jl, *Eng* (Sf).

PSEUDOBAEUS Horn

7281 **P. pusillus** Say. Schoharie (Not).

7280 **P. bicolor** Lec. **LI**: Yaphank, May (Ds).

7282 **P. oblitus** Lec. Buffalo (Z&R); Windsor, Je (Not); Schoharie (Not); Peekskill, among lichens on rocks, late May (Sherm); West Pt. (Robn); Nyack, Je (Ds); **SI** (L&D); **LI**: Bellport, in sweeping, Aug (Nic); Yaphank, Je (Ds).

ATTALUS Erichson

7290 **A. nigrellus** Lec. Mt. Seward, 4500 ft., Je 22 (M&H).

7294 **A. terminalis** Er. Newport, Je (NYS); Ithaca, Aug (Dt); Fort Montgomery (Ds); West Pt. (Robn); NYC, Ap (NYS); **LI**: Yaphank, Jl, *Eng* (Sf).

7300 **A. granularis** Er. Ithaca, Aug (Dt).

7303 **A. morulus** Lec. "NY" (Lec).

7304 **A. pallifrons** Mots. Schoharie (Not); **SI:** Watchogue, Je 28 (L&D).

7312 **A. rufiventris** Horn. Plattsburg (Ds); Buffalo (Z&R); Stony Pt. (Ds); **LI:** Wading R. (Ds).

7314 **A. otiosus** Say. West Pt. (Robn); **LI:** Yaphank, Je, *Eng* (Sf).

7322 **A. scincetus** Say. Poughkeepsie, May (NYS); Peekskill, in flowers of *Viburnum prunifolium* (Sherm); Ramapo (Ds); West Pt. (Robn); vic. NYC (AM); **SI** (L&D); **LI:** Greenport, May (NYS); Yaphank, Je, *Eng* (Sf); Orient, *Lath* (NYS).

SUBFAMILY MELYRINAE

DOLICHOSOMA Stephens

7503 **D. foveicollis** Kby. Buffalo (Z&R).

FAMILY CLERIDAE [39]

SUBFAMILY CLERINAE

MONOPHYLLA Spinola

7516 **M. terminata** Say. Rochester Jct., Je, *Leon* (WolcCU); West Pt. (Robn); Bronx Pk. (Sf); **SI,** May (Chitt), larvae predatory on borers in various trees and shrubs.

CYMATODERA Gray

7544 **C. bicolor** Say. Keene Val., Je (Not); Olcott, Je–Jl (Wolc, Dt); Buffalo (Z&R, Wolc); Kinderhook, Aug, Peekskill (WolcCU); West Pt. (Robn); Mosholu (Sf); **LI:** Cold Sp. Harb., Je, *Eng* (Sf).

7545 **C. inornata** Say. Olcott, Je–Jl (Wolc, Dt); Ilion, May (NYS); Buffalo (Z&R, Wolc); Ramapo (Sf); Greenwood L. (Sf); West Pt. (Robn); **SI,** larvae predatory on secondary borers in dead trees of several kinds (L&D); **LI** (Linell).

7566 **C. undulata** Say. "NY" (Sm, Wolc); West Pt. (Robn), as *balteata,* under which name a species is recorded also in the N. J. List.

PRIOCERA Kirby

7577 **P. castanea** Newn. Buffalo (Z&R).

THANASIMUS Latreille

7584 **T. trifasciatus** Say. Keene Val., Je (Not); Buffalo (Z&R), as *nigripes*; "NY" (Ashton Coll., Wolc–Purdue Univ.).

7585 **T. dubius** Fab. Mt. Seward, Je (M&H); Keene Val., Je–Jl (Not); Black Br., Clinton Co, Je (WolcCU); Buffalo (Z&R); Ithaca, Je (WolcCU); Peekskill, *Sherm* (Wolc); West Pt. (Robn); **LI:** Jamaica, Aug, *Pears* (Nic); Wyandanch, Ap, *Schott* (Ds).

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[39] A. B. Wolcott, besides supplying many records, has gone over the list for this family and is responsible for several changes in synonymy and spelling of names, which differ from those in Leng's catalog.

7587 **T. undulatus** Say. Black Br., Je (WolcCU); Buffalo (Z&R); **SI,** larvae in several kinds of trees infested by cerambycid borers (L&D).

7587a **T. undulatus** var. **nubilis** Klug. Buffalo (Z&R).

PLACOPTERUS Wolcott

7589 **P. thoracicus** Oliv. Olcott, Je–Jl (Wolc, Dt); Buffalo (Z&R), also *C.F.Baker* (Wolc); E. Aurora, Je (Dnd); Montour Falls, Je (H); Schoharie (Not); Ithaca, May (WolcCU); Ft. Montgomery, Je, *Schott* (Ds); West Pt., Je (Sf); Mosholu (AM); **SI,** Je (L&D); **LI:** Huntington, Wading R., Je (Ds); Yaphank, May–Je, *Eng* (Sf).

ENOCLERUS Gahan

7594 **E. nigrifrons** Say. E. Aurora (Dnd); Ithaca, Je (Wolc, Dt); West Pt., Je (Ds); **SI,** Je–Jl (L&D); **LI:** Bayshore, Jl (Ols); Huntington, Je, Wyandanch, Mar, Oakdale, Aug, *Schott* (Ds, Sf); Farmingdale, Je, *Morrow* (WolcCU); Pinelawn, Yaphank, Je, *Eng* (Sf).

7596 **E. nigripes** Say.[40] Buffalo, *Sherm* (Wolc); Ithaca, May–Jl (Wolc, Dt, CU); West Pt., Je (Sf); **LI:** Central Pk., Yaphank, Ap, Je, *Eng* (Sf).

7596b **E. nigripes** var. **rufiventris** Spin. Black Br., Je (WolcCU); E. Aurora (Dnd); Ithaca, May, Jl (Wolc, Dt, CU).

7597 **E. rosmarus** Say. Buffalo (Z&R); Ft. Montgomery, Je, *Schott* (Ds); West Pt. (Robn); Stony Pt., Mar (Ds); White Plains (Sq); Bronx Pk. (Sf); **SI,** Je, Aug (L&D); **LI:** Maspeth, Je (Ols); Flatbush (AM); Massapequa, Jl, Wyandanch, Je (Ds); Flushing, Je, *Eng* (Sf).

7605 **E. ichneumoneus** Fab. Cranberry L., Jl (Drk); NYC (Wolc); **LI:** Bellport, Wading R. (Nic).

7610 **E. quadrisignatus** Say. **LI:** Central Pk., Ap, Yaphank, Sep, *Eng* (Sf).

7612 **E. lunatus** Klug. **LI:** Rockaway Beach (Shoe).

7614 **E. analis** Lec. Pike, Je, Albany, Je, Poughkeepsie, May (NYS).

7616 **E. laetus** var. **coccineus** Schklg. "NY" (Fitch), but both Wolcott and Leng regard the record as doubtful since the species is more western.

—— **E. liljebladi** Wolc. **LI:** Bellport, *Nic* (Sf).

TRICHODES Herbst

7629 **T. nutalli** Kby. Wilmington, Jl (Ds); Honeoye Falls, Je, *Leon* (WolcCU); New Russia, Aug, *Bdy* (Wolc); Potsdam (Wolc–Ill. Lab. Nat. Hist.); Otto, Jl (CU); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Jl–Aug (Kngt); Ithaca, Jl–Aug (Wolc, Dt, CU); W. Hebron, Aug (Ds); **SI,** Jl, in fresh meadows (L&D).

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[40] *E. quadriguttatus* Oliv., 7595. Newport, Je (NYS); Cranberry L., Je–Jl, on pine and spruce (H); Buffalo (Frison); Karner, Jl (NYS); West Pt., Je (Sf); **SI,** Mar 29, on cedar (L&D); **LI:** Central Pk., Ap (Eng); Bellport, Je (Nic); Wyandanch, Mar, Oakdale, Aug, *Schott* (Ds). A. B. Wolcott writes: "This is not a North American species and was not intended to be included in Leng's catalog. The records should be transferred to *E. nigripes* Say. See Trans. Am. Ent. Soc., vol. 48, pp. 70–71, 1922."

7630 **T. apivorus** Germ. (*nutalli* Say). Ithaca (Chitt); Saratoga (Lec); Albany, Karner, Je (NYS).

7630a **T. apivorus** var. **borealis** Wolc. & Chap. "NY", as var. *interruptus* (Wolc); Binghamton, Aug, *Franck* (Sf); Ithaca, Aug (Wolc, Dt).

HYDNOCERA Newman

7637 **H. unifasciata** Say. **LI:** Loyd's Neck, Jl, *Brb* (Sf).

7642 **H. humeralis** Say. Buffalo (Z&R); West Pt., Ft. Montgomery, Je, *Schott* (Ds); Peekskill, *Sherm* (Wolc); **SI,** May (L&D); **LI:** Rockaway Beach, Je–Jl (Chitt), on *Myrica cerifera*; Smithtown, Je, Bayshore, Je, Maspeth, Huntington, May, Massapequa, Jl, Yaphank, Orient, Jl (Ds); Yaphank, Amagansett, Wyandanch, May–Je, *Eng* (Sf).

7642a **H. humeralis** var. **difficilis** Lec. Axton, Je (M&H); Peru, Je, Aug (WolcCU); Buffalo (Z&R), as *cyanescens* Lec.; Ithaca, Je, Aug (Wolc, Dt, CU); Peekskill, *Sherm* (Wolc); West Pt. (Robn); Ft. Montgomery, Je–Jl, *Schott* (Ds); **LI:** Huntington, Sep, Wyandanch, Jl, *Schott* (Ds); Yaphank, Pinelawn, Je, *Eng* (Sf).

7648 **H. lecontei** Wolc. Bear Mt., Jl, as *subaenea* Spin., *Nic* (Sf).

7649 **H. maritima** Wolc. **LI:** Amagansett, Aug (Sf).

—— **H. commixta** Chapin. "NY" *Chapin* (Wolc). Type.

7675 **H. verticalis** Say. Mt. Whiteface, 2000–4000 ft., Aug 22–24 (WolcCU); Plattsburg, Jl (Ds); Olcott, Je–Jl (Wolc, Dt); Buffalo (Z&R, Wolc); Castile, *Brad* (Flet); Ithaca, Feb, *Babiy*, Je, *Wolc* (CU); Schoharie (Not); Ft. Montgomery, Je–Jl, *Schott* (Ds); Peekskill, *Sherm* (Wolc); Nyack, Je (Ds); NYC (Wolc); Bronx Pk., Van Cort. Pk. (Sf); **SI,** Je–Jl, predatory on small cerambycid larvae in grape and Celastrus (L&D); **LI:** Parkville, *Sherm* (Wolc); Bellport, Je (Nic); Pinelawn, Yaphank (Sf); Riverhead, Sep (WolcCU).

7677 **H. pallipennis** Say. White L. (AM); Buffalo (Z&R, Wolc); Ithaca, Aug (Wolc, Dt); Hudson Falls, Jl, *Sherm* (Wolc); L. George (AM); West Pt. (Robn); Ft. Montgomery, Ramapo, Jl (Ds); Bronx Pk., Van Cort. Pk. (Sf); **SI,** Jl–Aug (L&D); **LI:** Greenport, Bellmore, Yaphank (Sf); Flatbush, Quogue (AM).

ISOHYDNOCERA Chapin

7688 **I. curtipennis** Newn. Cranberry L., Je 29 (H); Buffalo (Z&R); Montour Falls, Je (H); Ithaca, Jl (Wolc, Dt, CU); Windsor, Je (Not); Peekskill (Fall); Ramapo (Sf); **LI:** Rockaway Beach, Je, *Eng* (Sf). Also as *longicollis* Ziegl. from Batavia, Jl (Kngt); Schoharie (Not); West Pt. (Robn).

7689 **I. tabida** Lec. Rochester Jct., Je, *Leon* (WolcCU); Spring Lake, Jl (WolcCU); Ithaca, May–Je (Wolc, Dt, CU); Windsor, Je, (Not); Greenwood L. (Sf); **SI,** Je, predatory on mordellid larvae in stems of annual plants (L&D); **LI:** Rockaway, Je (Sf).

ZENODOSUS Wolcott

7694 **Z. sanguineus** Say. St. Lawrence Co, Jl (Drk); Keene Val., May, Aug (Not); Cranberry L., Je–Jl, also in burrows of bark beetles (Blkm,H); Syracuse, Ap, under bark (H); Geneva, Feb–Je (Cls);

Buffalo (Ashton Coll., also Bolter Coll., Univ. Ill.) (Z&R), as *Enoclerus*; E. Aurora (Dnd); Batavia, Sep (Kngt); Bronx Pk. (Sf); **LI:** Flushing (Ds).

SUBFAMILY **CORYNETINAE**

PHYLLOBAENUS Spinola

7696 **P. dislocatus** Say. Keene Val., Aug (Not); Cranberry L., Jl, in burrows of bark beetles (H); Syracuse, Je (Drk); Olcott, Je–Jl (Wolc,Dt); Buffalo (SayANSP); Ithaca, Ap–May (WolcCU); West Pt. (Sf); Ft. Montgomery, Je, *Schott* (Ds); Peekskill (AM); Mosholu (Sf); Bronx Pk. (Ds); **SI,** Je, larvae predatory on small borers in deciduous trees (L&D); **LI:** Wyandanch, Je, *Schott* (Ds); Bellport, Aug (Nic).

NEICHNEA Wolcott and Chapin

7698 **N. laticornis** Say. Buffalo (Z&R); Greenwood L. (Dietz, Sf); West Pt. (Robn); **LI:** Bellport, Aug (Nic).

CHARIESSA Perty

7708 **C. pilosa** Forst. Honeoye Falls, Je, *Leon* (WolcCU); Castile, *Brad* (Flet); Syracuse (B&S); Buffalo (Z&R); Ithaca, Je 30 (WolcCU); West Pt., Je (Ds); Peekskill, Jl, *Sherm* (Wolc); **SI:** Clove Val., Je 27, from hickory (L&D); **LI:** Bellport, Aug (Nic).

7708a **C. pilosa** var. **marginata** Say. Buffalo (Z&R), as *onusta*; Peekskill, Je, *Sherm* (Wolc); West Pt., Je (Ds); **LI:** Wyandanch, Je, *Schott* (Ds).

CORINTHISCUS Fairmaire and Germain

7711 **C. leucophaeum** Klug. Rochester (Moore); Buffalo (Z&R), as *Cregya vetusta*; Bronx Pk. (Sf).

CREGYA LeConte

7716 **C. oculatus** Say. Buffalo (Z&R); Peekskill, *Sherm* (Wolc); Mosholu (Sf); NYC (Wolc, Wickham); **SI,** Mar, Je, Jl, on cedar and deciduous trees; larvae predatory on borers (L&D); **LI:** Montauk Beach, Wyandanch, Half Way Hollow Hills, Je (Ds).

ORTHOPLEURA Spinola

7719 **O. damicornis** Fab. Buffalo (Z&R); Peekskill, *Sherm* (Wolc); **LI:** Jamaica, *Pears* (Nic).

NECROBIA Olivier

7727 **N. rufipes** DeG. Perry, Dec (WolcCU); Buffalo (Z&R); Ithaca, Aug–Sep (WolcCU); **SI,** Jl–Sep, often found on beach, on dead animals (L&D); **LI:** Rockaway Beach, May, *Schott* (Ds); Brooklyn, Long Beach (Sf); Coney I. (AM).

7728 **N. ruficollis** Fab. Buffalo (Z&R); Oswego, Sep, *Sheldon* (Wolc); Ithaca, Aug (WolcCU); Peekskill, *Sherm* (Wolc); NYC (AM); **SI,** Aug–Sep, habitat same as for *rufipes* (L&D); **LI:** Rockaway Beach, Sep, *Schott* (Ds); Coney I. (AM).

7729 **N. violacea** L. Axton, Je (M&H); Syracuse, Ap (H); Olcott, May (Wolc,Dt); Potsdam (Wolc–Ill. Lab. Nat. Hist.); E. Aurora (Dnd); Montour Falls, Ap (H); Ithaca, Ap, May, Aug (Wolc, Dt, CU); West Pt. (Robn); **SI,** Aug (L&D); **LI:** Brooklyn, Yaphank, May, *Eng* (Sf).

FAMILY **LYMEXYLIDAE**

HYLECOETUS Latreille

7739 **H. lugubris** Say (*americanus* Harr.). Keene Val., May–Je (Not); Newport, May–Je (NYS); Trenton Falls, May 20, larva boring in elm (Hagen); Albany, May (NYS); vic. NYC (AM).

MELITTOMMA Murray

7740 **M. sericeum** Harr. NY", larva in oak, *Horn* (Fitch); **LI:** Rockaway Beach, Je, Long Beach, Jl (Sf).

FAMILY **CUPESIDAE**

CUPES Fabricius

7743 **C. capitatus** Fab. Newport (NYS); Buffalo (Z&R); Albany, Jl (NYS); vic. NYC (AM); North Branch (Schaupp).

7744 **C. concolor** Westw. Newport (NYS); Syracuse, in dying hickory (B&S); Buffalo (Z&R); Ithaca, Jl–Aug (Vdyk); North Branch (Schaupp); **LI:** Westbury, Jl (bred by Champlain–H); Greenport, Aug, at light (Ds).

7744a **C. concolor** var. **oculatus** Csy. "NY" (Csy).

FAMILY **CEPHALOIDAE**

CEPHALOON Newman

7747 **C. lepturides** Newn. (*lepturoides* Hald.). Mt. Seward, Axton, Je (M&H); Newport (Yg); Chapel Pond, Keene, Je, *Leon, Bish* (Yg); Peru (FletCU); Olcott, Je–Jl (Dt); E. Aurora, Je (Flet,Dnd); Buffalo (Z&R); Rock City, Je (FletCU); Ithaca, May–Jl (Dt); Windsor, Je (Not); Trenton Falls (Newn); Schoharie (Not); Ft. Edward, Je (FletCU); Ramapo, Nyack, Je (Joutel); **SI:** Green Ridge, Je, common in flowers of the tulip tree (Liriodendron) (L&D).

TYPITIUM Casey

7748 **T. ungulare** Lec. Whiteface Mt., Jl (Lg); Essex Co, Jl (FletCU); E. Aurora, Je (Flet,Dnd).

FAMILY **OEDEMERIDAE**

SUBFAMILY **OEDEMERINAE**

NACERDA Stephens

7763 **N. melanura** L. Oswego, Jl (NYS); Lockport, Mar (FletCU); Buffalo, Aug (NYS); Castile, *Brad* (Flet); Ilion, May (NYS); Ithaca, Jl (Dt); Albany (Lint); West Pt. (Robn); NYC (FletCU); **SI,** Je–Jl (L&D); **LI:** Bergen Beach, Greenport (Ds); Flatbush, Long Beach (AM); Rockaway Beach, Je (Sf); Barren I. (AM).

DITYLUS Fischer

7765 **D. coeruleus** Rand. Buffalo (Z&R).

COPIDITA LeConte

7769 **C. thoracica** Fab. Greenwood L. (Sf); West Pt. (Robn); **LI:** Wyandanch, a variety (Sf).

ALLOXACIS Horn

7776 **A. dorsalis** Melsh. West Pt. (Robn); vic. NYC (AM); **SI,** Jl–Aug, once rather abundant, under logs (L&D); **LI:** Fire I., Rockaway Beach, Aug (Sf).

ASCLERA Stephens

7799 **A. puncticollis** Say. Mt. Seward, 4500 ft., Je (M&W); Whiteface Mt., Jl (Sf); Buffalo (Z&R); Trenton Falls (Newn); **SI,** May 8, 1881 (L&D).

7800 **A. ruficollis** Say. Cranberry L., Je (H); Buffalo (Z&R); Ithaca, Ap–May, McLean Bogs, May (FletCU); Taughannock, Gorge, Ap 21, *Dt* (Snn); Trenton Falls (Newn); Albany, Nassau, E. Schodack, Ap–May (NYS); Ramapo, West Pt. (Robn); NYS (AM); **SI,** Ap–May (L&D); **LI:** Yaphank, May (Sf).

FAMILY **MORDELLIDAE** [41]

TOMOXIA Costa

7804 **T. bidentata** Say. Peru, Je (CU); Rochester, Honeoye Falls, *Leon* (CU); Castile, *Brad* (Flet); Batavia, Je (Kngt); Ithaca, Jl (CU); Albany, Je (NYS); West Pt. (Robn); Nyack, *Ds* (Nic); Palisades (Nic); Van Cort. Pk. (Nic); **SI,** Jl 31, on dead oak log (L&D); **LI:** Maspeth, Je, *Shoe* (Nic). On decaying hickory (Felt).

7805 **T. lineella** Lec. Peru, Je 21 (CU); Rochester Jct., Jl 7, *Leon* (CU); Buffalo (Lec); Ithaca, Jl (CU); Poughkeepsie, Je (NYS); Catskills (Nic); **SI,** Je (L&D). On decaying hickory (Felt).

7806 **T. inclusa** Lec. Rochester Jct., Jl, *Leon* (CU); Buffalo (Z&R); Catskills, Jl (Nic).

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[41] Emil Liljeblad has seen the manuscript of the list for this family, and has made some changes in synonymy as well as determined all of the material from New York in the Cornell collection.

MORDELLA Linnaeus

7808 **M. quadripunctata** Say. Cranberry L., Jl 10 (H).

7809 **M. borealis** Lec. Big Moose, Jl (NYS); Newport (NYS); Cranberry L., Aug (H); Albany, Nassau (NYS); Catskills, *Pears* (Nic). On dying spruce and in decaying maple stumps (Felt).

7810 **M. melaena** Germ. Chazy L., Saranac Inn, L. Placid, Severance, Hope, Wells, L. Pleasant, Gloversville, Northampton, Pike, Je–Aug (NYS); Castile, *Brad* (Flet); Cranberry L., Jl (H); Buffalo (Z&R); Wales, Jl (Dnd); Canandaigua, Jl (NYS); Ithaca, Jl–Aug (CU); McLean, Jl (Dt); Saratoga Sps., Jl (NYS); Karner, Jl (NYS); Catskills (Nic); Pine I. (Ds); Van Cort. Pk., very local and not common (Nic); **SI,** on wild rose (L&D).

7811 **M. atrata** Melsh. (Liljeblad writes that *scutellaris* Fab. is a South American species.) Peru, Je (CU); Black Br., Je (CU); Axton, Je (M&H); Newport, Severance, Hope, Je–Aug (NYS); Saranac, Aug (CU); Long L. (Ds); Cranberry L., Wanakena (H); Erie Co, Je (Dnd); Ithaca, Enfield, Jl (CU); McLean Bogs, Jl (Dt); Kenwood, Jl (NYS); Karner, Jl (NYS); Poughkeepsie, Je–Jl (NYS); West Pt. (Ds); **SI,** Je, Sep (L&D); **LI:** Orient, *Lath* (NYS).

7811a **M. atrata** var. **lecontei** Csiki. Ithaca, Je, *Dt* (CU); Middletown, Je (CU).

7814 **M. octopunctata** Fab. Rochester Jct., Aug, *Leon* (CU); E. Aurora, Jl (Dnd); Geneva, Je (Cls); Ithaca, Jl (CU); Albany, Je (NYS); West Pt., Ft. Montgomery (Ds); **SI,** Je–Jl, bred from hickory (L&D); **LI:** Mineola, Je, *Wolf* (NYS); Farmingdale, Je (Lilj). Larvae in oak stumps (Felt).

7817 **M. marginata** Melsh. Keene Val., L. Placid, Saranac Inn, Wells, Hope, Je–Aug (NYS); Wilmington (Dt); Wanakena, Aug (Drk); Cranberry L., Jl (H); Rochester Jct., Je, *Leon* (CU); Olcott (CU); Buffalo (Z&R); E. Aurora, Je–Jl (Dnd); Pike, Sep, *Knull* (Lilj); Castile, *Brad* (Flet); Otto, Jl (CU); Crosby, Je (CU); Montour Falls, Je (H); Ithaca, Jl–Aug (CU); McLean (Dt); Danby, Jl (Dt); Spring Lake, Jl (CU); Schoharie (Not); L. George (AM); Catskills (Sm); Poughkeepsie, Je–Jl (NYS); Rhinebeck, Jl, *Cy* (CU); West Pt. (Robn); **SI,** Je–Jl, on hickory (L&D); **LI:** Jamaica, Je (NYS); Flatbush, Long Beach (AM); Farmingdale, Je (CU).

—— **M. marginata** var. **lineata** Melsh. Cranberry L., Jl 10 (H).

7818 **M. lunulata** Hellm. Crosby Landing, L. Keuka, Je, *Cy* (CU); Albany, Je (NYS).

7819 **M. serval** Say. Newport, Je (NYS); Cranberry L., Jl (Drk); Buffalo (SayANSP); Ithaca, Jl 15 (CU); Albany, Je (NYS); Catskills, May (Nic); **SI,** Aug (L&D); **LI** (Sm).

7824 **M. triloba** Say. Ithaca, Taughannock Gorge, Jl (CU); Spring Lake, Jl (CU).

7825 **M. undulata** Melsh. Buffalo (Z&R).

7827 **M. discoidea** Melsh. **LI** (Sm).

MORDELLISTENA Costa

7834 **M. confusa** Blatch. Ringwood, May 27, McLean Bogs, May 30 (Dt).

7836 **M. arida** Lec. Spring Lake, Jl (CU); **LI:** Bellport, Jl–Aug, in beating dead pines, *Shoe* (Nic).

7837 **M. lutea** Melsh. Buffalo (Z&R).

7838 **M. trifasciata** Say (*lepidula* Lec., according to Lilj). Buffalo (Z&R); Danby, Jl (Dt); Ithaca, Jl (CU); Catskills (Nic); Van Cort. Pk. (Nic); **SI**, Je–Jl (L&D); **LI**: Bellport, Jl (Nic).

7841 **M. limbalis** Melsh. Ithaca, *J.W.Green* (Lilj); **SI** (L&D).

7842 **M. elegantula** Sm. **LI** (Sm).

7844 **M. dimidiata** Hellm. Olcott, Jl 4 (Dt).

7845 **M. biplagiata** Hellm. E. Aurora, May (Dnd); Castile, Je, *Brad* (Flet).

7846 **M. intermixta** Hellm. Adirondacks (Sm).

7848 **M. vapida** Lec. "Vic. NYC" (Sm); **SI** (Nic).

7850 **M. bipustulata** Hellm. Olcott, Jl (Dt).

7851 **M. atriceps** Sm. Newport (NYS); "NY" (Sm).

7853 **M. picipennis** Sm. NY (Sm).

7854 **M. pallipes** Sm. Ithaca (Sm).

7855 **M. fulvicollis** Melsh. Buffalo (Z&R).

7856 **M. ornata** Melsh. **SI**, Je (L&D).

7858 **M. scapularis** Say (*biplagiata* Hellm., according to Lilj). Peru (CU); Keene Val., Jl, Newport, Je (NYS); Cranberry L., Je (H); Olcott, Je–Jl (Dt); Buffalo (Z&R); Geneva, Je (Cls); Port Byron, Je (Dt); Ithaca, May–Je (CU); Schoharie (Not); Catskills (Nic); Poughkeepsie, May–Je (NYS); Middletown (CU); Ramapo, Je, *Ds* (Nic); Peekskill, Je (CU); West Pt. (Robn); Highlands of the Hudson (Nic); Van Cort. Pk. (Nic); **SI**, May–Je (L&D).

7859 **M. comata** Lec. Newport, Je (NYS); Hope, Aug, *Bks* (NYS); Ilion, May (NYS); Olcott, Jl (Dt); E. Aurora, Je, Protection, Jl (Dnd); L. George (AM); Nassau, May (NYS); Kinderhook, Je (NYS); **SI**, Je–Sep (L&D); **LI**: Bellport, Je–Jl (Nic).

7859a **M. comata** var. **cervicalis** Lec. Axton, Je (M&H); Cranberry L., Jl (H); Buffalo (Z&R); Ithaca, May–Jl, Ringwood, Je (CU); Freeville, Jl (CU); Rhinebeck, Jl, *Cy* (Lilj); Middletown, Jl, *Spooner* (CU).

7860 **M. aspersa** Melsh. Axton, Je (M&H); Newport, Jl (NYS); Cranberry L., Jl (H); Olcott, Je–Jl (Dt); Ithaca, May–Aug, McLean, Jl (CU); Windsor, Je (Not); Caroline to Harford, Je (CU); Cortland, Jl (NYS); Schoharie (Not); Nassau, Karner, Menands, Jl (NYS); Rhinebeck, Jl, *Cy* (Lilj); Mosholu, Je (NYS); **LI**: Forest Pk., Je (NYS).

7861 **M. indistincta** Sm. "Adirondacks" (Sm); Fall Cr., Ithaca, Aug 2 (Dt).

7862 **M. tosta** Lec. E. Aurora, Jl (Flet,Dnd); Ithaca, Jl (CU).

7869 **M. picilabris** Hellm. **LI**: Bellport, Je 24, evidently one of the few maritime species (Nic).

7870 **M. infima** Lec. Mt. Whiteface, 2000–4000 ft., Aug 22–24 (CU); Ithaca, Aug 3, Ringwood, Je 26 (CU).

7871 **M. andreae** Lec. Poughkeepsie, Je (NYS).

7872 **M. grammica** Lec. Wells, Jl (NYS); **SI**, in blossom of wild parsnip, *Ds* (Nic, L&D); **LI**: Jamaica, Floral Pk., Je (Nic).

7872a **M. grammica** var. **varians** Lec. Newport, Je (NYS); Ithaca, Jl (NYS); Karner, Jl (NYS); Ramapo Mts. (AM); **SI**, on flowers of wild parsnip, *Ds* (Nic, L&D).

7874 **M. ancilla** Lec. "NY" (Lec).

7877 **M. impatiens** Lec. NY (Sm).

7879 **M. nigricans** Melsh. Newport, Je (NYS); Ithaca, Je 28–Jl 19 (CU); Albany, Je (NYS); Poughkeepsie, Je (NYS); **SI,** on seashore, Je (L&D).

7881 **M. ruficeps** Lec. "Around NYC" (Sm); **SI,** Aug (Nic, L&D).

7883 **M. splendens** Sm. **SI,** Aug, on Spartina (Nic,L&D).

7888 **M. pustulata** Melsh. Axton, Je (M&H); Cranberry L., Je 9 (H); E. Aurora, May 1 (Dnd); Montour Falls, Je (H); Ithaca, Je–Jl (CU); Windsor, Je (Not); Scotia, Je (NYS); Rensselaer (NYS); West Pt. (Ds); **SI,** Je (L&D).

7889 **M. convicta** Lec. Olcott, Je 5 (Dt); Ithaca, Je, Jl 2 (CU); Windsor, Je (Not); West Pt. (Robn).

7891 **M. fuscipennis** Melsh. "Around NYC" (Sm).

7893 **M. morula** Lec. Ithaca, Je–Jl (CU); Windsor, Je (Not); West Pt., Je, *Ds* (Nic); **SI,** Je 26 (Nic, L&D).

7894 **M. ambusta** Lec. Olcott, Jl (Dt); Buffalo (Rein); Ithaca, Jl (CU); Poughkeepsie (NYS); "near NYC" (Sm); **SI,** Jl (L&D).

7899 **M. unicolor** Lec. Cranberry L., Jl (H); West Pt. (Robn).

7901 **M. marginalis** Say. "Common throughout the State" (Nic); Boston, Je (Dnd); Rock City, Je 9 (Lilj); Allegany Pk., Aug (Dnd); Ithaca, Ellis, Ap–Je (CU); Woodwardia Bog, Tompkins Co (CU); McLean (CU); **SI,** Je (L&D); **LI:** Farmingdale, Je (CU).

7903 **M. schauppi** Sm. "NY" (Sm).

7904 **M. vera** Lilj. "NY", one specimen in Univ. of Ill. (Lilj).

7905 **M. aequalis** Sm. Ithaca, Je 12 (CU).

7910 **M. pubescens** Fab. Common everywhere (Nic); Mt. Merino, Columbia Co, Jl (CU); Poughkeepsie, Je (NYS); West Pt. (Robn); Ft. Montgomery (Ds); Peekskill, Ap 9 (Lilj); vic. NYC (Sm); **SI,** Je (L&D); **LI:** Yaphank, Orient (Ds).

7912 **M. liturata** Melsh. Buffalo (Z&R); **SI,** Jl (Nic, L&D); **LI:** Aqueduct, Jamaica, *Shoe* (Nic).

7913 **M. fuscata** Melsh. Around NYC (Sm).

7915 **M. pityptera** Lec. Catskills, Aug 3, a very rare insect hitherto recorded only from Pa. and Tex. (Nic).

7917 **M. cinereofasciata** Sm. Ithaca (Sm).

7925 **M. attenuata** Say. "NY" (Sm).

7926 **M. discolor** Melsh. **SI,** Jl 23, *Shoe* (Nic, L&D).

ANASPIS Geoffroy

7938 **A. nigrina** Csiki. Ithaca, Je–Jl (CU); Schoharie (Not).

7942 **A. flavipennis** Hald. Mt. Whiteface, summit (Ds); Axton, Je (M&H); Newport, Cranberry Cr., May–Je (NYS); Cranberry L., Je–Jl (H); Long L. (Ds); Buffalo (Z&R); Batavia, Jl (Kngt); Ithaca, May–Je (CU); Caroline to Harford, Je (CU); McLean, May (CU); Ringwood, Jl 24 (CU); Spencer L., Je (CU); Albany, May (NYS); Catskills (Nic); West Pt. (Ds); Peekskill, on flowers of *Viburnum prunifolium* (Sherm); **SI,** May, on Veratrum (L&D). On willow catkins, also on shadbush when in bloom (Felt).

7943 **A. rufa** Say. Cranberry L., Je 14–20, extremely abundant on blossoms of Spiraea, Rubus, Acer, Sambucus, etc. (H); Olcott, Je–Jl (Dt); Buffalo (Z&R); Protection, Jl (Flet,Dnd); Portageville, Je; Montour

Falls, Je (H); Ithaca, Ringwood, May–Aug (CU); Enfield, Jl (Lilj); Windsor, Je (Not); Kenwood, Je (NYS); Rensselaer, Je (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI,** Je (L&D).

FAMILY **RHIPIPHORIDAE**

PELECOTOMA Fischer

7946 **P. flavipes** Melsh. NY (ANSPHorn).

MACROSIAGON Hentz

7949 **M. flavipenne** Lec. West Pt. (Robn); **SI,** Jl (L&D); **LI:** Aqueduct, Jl, *Shoe* (Sf).

7950 **M. dimidiatum** Fab. Newport, *Lg* (NYS); Peekskill (Sherm); **SI,** Jl–Aug (L&D).

7953 **M. pectinatum** Fab. West Pt. (Robn); **SI,** Aug (Sf); **LI:** Rockaway Beach (Shoe).

7954 **M. cruentatum** Germ. Peekskill (Sherm).

7956 **M. limbatum** Fab. West Pt. (Robn); Peekskill (CU); Mosholu, Aug (NYS); Nyack (AM); White Plains, Jl (Fall, Sq); **SI,** Jl–Aug (L&D); **LI:** Southold, Orient Pt., Aug–Sep (NYS).

RHIPIPHORUS Bosc d'Antic

7958 **R. luteipennis** Lec. Karner, Aug 13, *Yg* (NYS); Mosholu, Aug (Sf); **SI,** Aug (L&D); **LI:** Montauk, Aug, *Eng* (Sf).

7967 **R. fasciatus** Say. Speculator, Jl (NYS); Ithaca, Jl–Aug (CU); Albany, Nassau, Jl–Aug (NYS); New Baltimore (AM); **LI:** Riverhead, *Huck* (Flet).

7968 **R. schwarzi** Lec. Buffalo (Z&R).

7969 **R. walshi** Lec. "NY" (Lec).

7970 **R. stylopides** Newn. Greenwood L. (Sf).

FAMILY **MELOIDAE**

SUBFAMILY **MELOINAE**

POMPHOPOEA LeConte

7990 **P. sayi** Lec. Newport, Je (NYS); Cranberry L., Je–Jl (H); Herkimer, Je (Cy); Wilmurt (CU); Frankfort (NYS); Gloversville, May (NYS); Boonville, Je, Utica, Je (Cy); Syracuse, Je (Cy); West Rush; Fairport, Je (Cy); Pittsford, Je (Cy); Batavia, Je (Cy); Lime, Je (Cy); Pavilion, Je (Cy); Williamson; Avon, Genesee, May (Cls); Mt. Morris, Je; Caledonia, Je; Tuscarora, Je; Livonia Center, Je; Portage (CU); Sonyea, Jl (Cy); Scottsville, Je; Perry, Je (CU); Castile, Je, *Brad* (Flet); Hammondsport; Weedsport, Je; Branchport, Je (Cy); Lakemont, Je (Cy); Valois, May (Cy); Schuylerville (Felt); Lowman, Je (Cy); Wellsburg, Jl (Cy); Owego, Je (Cy); Binghamton, Je (Cy); Nunda, Je (Cy); Nineveh, Je; Berkshire, Je (Cy); Elmira, Je (Cy); Waverly, Je (Cy); Ithaca, Je; McLean Bogs, Je; Newfield, Je (Cy); Interlaken, Je (Cy); Cortland, Je (Cy); Moravia, Je; Cazenovia, Je (Cy); Windsor, Je (Not); Canajoharie, Je (Fitch); Fonda, May–Je (Felt); Schoharie, Je (Not, Lint); Schenectady, Je (Cy); Quaker Street, Je (Felt); Corinth, Je (NYS); Hartford, May–Je (Felt); Cambridge (Felt);

Clarksville (Felt); Slingerlands, May–Je (NYS); Castleton, May–Je (NYS); Voorheesville, Jl (NYS); Elsmere, May (NYS); Philmont, Je (Felt); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine I. (AM); Ft. Edward, Je (Cy); western **SI**, May (L&D); **LI**: Mineola, Je (Cy).

7993 **P. aenea** Say. Frankfort (Lint); E. Auburn (Dnd); Ithaca, May, *Bish* (NYS); New Windsor (AM); West Pt. (Robn); Van Cort. Pk. (AM).

EPICAUTA Redtenbacher

8018 **E. vittata** Fab. Buffalo (Z&R); Cayuga Co (Lint); Valatie, Aug; Bethlehem, Je (Lint); West Pt. (Robn); **SI**, Jl–Aug (L&D); **LI**: Flatbush (AM).

8024 **E. cinerea** Forst. Buffalo (Z&R); Ithaca, Sep (Dt); West Pt. (Robn); **SI**, Jl–Aug (L&D).

8024a **E. cinerea** var. **marginata** Fab. Gowanda, Aug (Cy); Castile, *Brad* (Flet); Ithaca, Jl, Sep (Dt); Albany, Aug (NYS); Karner, Jl, Kenwood, Jl, Coeymans, Sep (NYS); Normanskill, Aug, *Leon* (NYS); White Plains, Jl–Sep (Cy); Tarrytown, Aug (Cy); **LI**: Brooklyn (Dt); Flatbush (AM); Hempstead, Jl (Cy); Roslyn (CU); Floral Pk., Jl (NYS).

8033 **E. pennsylvanica** DeG. Wilmington (Lint); Severance, Aug, *Bish* (NYS); Hope, Keene Val., Aug (NYS); L. Chazy, Je (NYS); Buffalo (Z&R); Avon, Aug (Cls); E. Aurora (Dnd); Cobleskill, Aug (Felt); Charleston Four Corners, Aug (Felt); Otto, Je (CU); Castile, *Brad* (Flet); Oswego, Aug (Cy); Worcester, Aug (Cy); Schenevus, Aug (Cy); Ithaca, Aug–Sep (CU); Watkins, Aug (NYS); Danby, Aug (CU); Candor, Aug (Cy); L. George (AM); Pawling, Sep (Cy); Albany, Sep (NYS); West Pt. (Robn); White Plains, Aug–Sep (Fall, Sq); Baldwin (AM); **SI**, Aug–Sep, on goldenrod (L&D); **LI**: Floral Pk., Aug (Leon); Mineola, Aug (Cy); Flatbush (AM); Orient, *Lath* (NYS).

MACROBASIS LeConte

8042 **M. unicolor** Kby. Plattsburg, Jl, Northville, Je, Ausable Forks, Je (NYS); Cranberry L., Je (H); Bulls Head (Lint); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jl (Dt); Schoharie (Not); Canton, Jl (Leon); Elmira, Jl (CU); Waverly, Jl (Leon); Factoryville, Je (NYS); Saratoga Sps., Jl (NYS); Altamont, Jl (CU); Schenectady, Jl (CU); Gouverneur, Je (Leon); Albany, Jl, Nassau, Karner, Je (NYS); Clinton Corners, Jl (CU); Chatham, Jl (NYS); Florida (Cy); **SI**, Je–Jl (L&D); **LI**: Orient, Jl, *Lath* (NYS); Flatbush (AM).

8042½ **M. debilis** Lec. "NY" (Lec. in Proc. Acad. Nat. Sci. Phila. 6: 344, 1854).

LYTTA Fabricius

8066 **L. nuttalli** Say. **SI**: Eltingville, May 21, 1922, *Clarence Busteed* (L&D).

MELOE Linnaeus

8142 **M. impressus** Kby. Syracuse, Ap, under stones (H); Westfield, May (Not).

8142a **M. impressus** var. **niger** Kby. "NY" (ANSP).

8147 **M. angusticollis** Say. Keene Val., Aug (NYS); Cranberry L., Jl–Aug (H); Newport, Je (NYS); Ausable Forks, Aug (Lint); Axton, Je (M&H); Ilion, Sep (NYS); Hannibal, Sep (Cy); Syracuse, Sep (Leon); Buffalo (Z&R); E. Aurora (Dnd); Avon, Aug (Cls); Pike, Je (NYS); Castile, *Brad* (Flet); Perry (Lint); Ithaca, Sep (Dt); L. George (AM); Karner, E. Schodack, Ap (NYS); E. Greenbush, Ap (NYS); Ft. Plain, Sep (NYS); White L. (AM); West Pt. (Robn); White Plains, Ap (Sq); **SI** (L&D); **LI:** Babylon (AM); Orient, *Lath* (NYS).

8148 **M. americanus** Leach. Cranberry L., Sep (Drk); Ithaca, Ap–May (Dt); **SI,** May (L&D).

8149 **M. moerens** Lec. "NY" (Lec); Lewis, Mar (NYS).

ZONITIS Fabricius

8158 **Z. bilineata** Say. **SI,** Aug, on wild sunflower (L&D).

NEMOGNATHA Illiger

8182 **N. nemorensis** Hentz. "NY" (Lec).

TRICRANIA LeConte

8194 **T. sanguinipennis** Say. **SI,** found dead on sandy path at Watchogue, Ap 22, 1917 (L&D).

FAMILY PYTHIDAE

PYTHO Latreille

8203 **P. niger** Kby. Buffalo (Z&R); Ithaca, Nov (Flet); vic. NYC (AM).

8204 **P. planus** Hbst. Cranberry L., Je, common under bark of pine (H); Buffalo (Z&R); Pike, Je–Jl (NYS); Ithaca, Mar–Je (DtCU), Nov (Flet); Albany, May, Lansingburg (NYS); **SI,** Nov 1 (L&D).

SALPINGUS Gyllenhal

8211 **S. virescens** Lec. Mt. Whiteface, Je (Ds); Ithaca, Aug 15 (Flet); Coy Glen, Ithaca, Aug 2, *Dt* (Vdyk); **LI:** Woodside, Je (Sf).

RHINOSIMUS Latreille

8215 **R. viridiaeneus** Rand. Newport, Ap 28 (NYS); Buffalo (Z&R); McLean, Ap 17, *Babiy* (Flet); Ringwood, May (Vdyk); Catskills (Sf); West Pt. (Robn).

FAMILY PYROCHROIDAE

ISCHALIA Pascoe

8218 **I. costata** Lec. Wallface Mt., Jl 8, *Quirs* (Frost); E Jewett, Ap 18 (Ds).

NEOPYROCHROA Blair

8220 **N. flabellata** Fab. Newport (NYS); Buffalo (Z&R); Geneva, Jl (Cls); Ithaca, Jl (FletCU); West Pt. (Robn); **SI**, Je–Aug (L&D); **LI**: Half Way Hollow Hills (Ds).

8221 **N. femoralis** Lec. Buffalo (Z&R); **SI**, May–Je (L&D); **LI**: Gardiners I. (Ds).

SCHIZOTUS Newman

8224 **S. cervicalis** Newn. Axton, Je (M&H); Newport, May, L. Clear, Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Castile, May, *Brad* (Flet); Trenton Falls (Newn); Nassau, May (NYS).

DENDROIDES Latreille

8225 **D. bicolor** Newn. Axton, Je (M&H); Newport, Je–Jl (NYS); Old Forge, Jl (FletCU); Cranberry L., Je–Jl (H); Olcott, Je, E. Aurora, Jl (Dnd); Buffalo (ANSP); Pike (NYS); Batavia, Je–Jl (Kngt); Genesee Co (Ds); Cattaraugus Co, Je (Ds); Ithaca, Je–Jl (DtCU); Broadalbin, Je, Menands, Aug, Rensselaer, Jl, Clinton Hgts., Jl (NYS); Trenton Falls (Newn); **SI**, Je, Aug (L&D); **LI**: Aqueduct (Ds).

8226 **D. concolor** Newn. Peru, *Cy, Fbs* (FletCU); Axton, Je (M&H); Newport, Keene Val., Je (NYS); Saranac Inn, Jl (NYS); Cranberry L., Je–Jl (H); Mt. McIntyre, Jl, *Leon* (NYS); Olcott, Je (Dnd); Conesus L. (Ds); Buffalo (ANSP); Geneva, Jl (Cls); Allegany Pk., Jl (Dnd); Rock City (Ds); Castile, *Brad* (Flet); Ringwood, Je, Ithaca, Jl, at trap lantern (FletCU); Cortland Co, Je (Dnd); Trenton Falls (Newn); West Pt. (Robn); **LI**: North Beach (Olsen); Flushing (Ds).

8228 **D. ephemeroides** Mann. Olcott, Je–Jl (Dt); Ithaca, Jl 12 (Dt).

FAMILY **PEDILIDAE**

PEDILUS Fischer

8243 **P. canaliculatus** Lec. Newport, Je (NYS); Erie Co, May–Je (Dnd); Castile, May, *Brad* (Flet).

8244 **P. elegans** Hentz. Ilion, May (NYS); Batavia, Je (Kngt); Ithaca, Je, *Horn* (Vdyk); Nassau, N. Chatham, Wappingers Falls, Je (NYS); Rensselaer, May (NYS); Sunnyside, May (NYS).

8245 **P. terminalis** Say. Buffalo (Z&R); Ithaca, May–Je (FletCU); Trenton Falls (Newn); Albany, Je (NYS); West Pt. (Robn).

8247 **P. fulvipes** Newn. Buffalo (Z&R); Pike (NYS); Marilla, Je (Dnd); Trenton Falls (Newn).

8248 **P. newmani** Lec. Axton, Je (M&H); Newport, May (NYS); Buffalo (Z&R); Batavia, Je (Ds); Marilla, Je (Dnd); Ithaca, May–Je (FletCU); McLean Bogs, Je (FletCU); Trenton Falls (Newn); Albany, Nassau, Je (NYS); Rensselaer, May (NYS).

8249 **P. cyanipennis** Bland. Catskills, Je (Ds).

8250 **P. labiatus** Say. Rochester Jct., Je, *Leon* (Flet); Buffalo (Z&R); Geneva, Je (Cls); Montour Falls, Je (H); Ithaca, Jl (Dt); McLean Bogs, Je (FletCU); Albany, Je, Rensselaer, May (NYS); West Pt. (Robn), as *pulcher*.

8251 **P. lugubris** Say. Newport, May (NYS); Northampton, Je (NYS); Ilion, May (NYS); Rochester Jct., Je, *Leon* (FletCU); E. Aurora, May (Dnd); Pike (NYS); Castile, *Brad* (Flet); Batavia, Je (Kngt); Windsor, Je (Not); Spencer, Port Byron, Je (Dt); Schoharie (Not); Corinth, May (NYS).

8252 **P. collaris** Say. Newport (NYS); Buffalo (Z&R); Port Byron (Dt); Ithaca, Je, *Ham* (Vdyk); Spencer, Je (Dt); Trenton Falls (Newn); Nassau, May (NYS); West Pt. (Robn).

STEREOPALPUS LaFerte-Senectère

8264 **S. mellyi** Laf. Buffalo (Z&R).

8265 **S. vestitus** Say. Buffalo (Z&R).

MACRATRIA Newman

8278 **M. confusa** Lec. Ithaca, Je (FletCU); Schoharie (Not).

8279 **M. murina** Fab. Buffalo (Z&R); **SI**, Jl (L&D).

8280 **M. ovicollis** Csy. "NY" (Csy).

FAMILY ANTHICIDAE

NOTOXUS Geoffroy

8289 **N. bifasciatus** Lec. Buffalo (Z&R); Lockport, Jl, Ithaca, Je (NYS); Karner, Je (NYS).

8302 **N. anchora** Hentz. Axton, Je (M&H); Ausable Forks, May, Wells, Jl (NYS); Saranac Inn, Jl (Ndm); Cranberry L., Je–Jl (H); Northampton, Je (NYS); Buffalo (Z&R); Batavia, Je (Kngt); McLean, Aug (Flet); Letchworth Pk., Jl (NYS); Schoharie (Not); Corinth, Je, Albany, Jl, Karner, Je (NYS).

8304 **N. monodon** Fab. Albany, Ap, *FTHartmann*, Cedar Hill, Je, E. Schodack, Mar, Normanskill, Ap (NYS); West Pt. (Robn); Ramapo (Ds); Suffern (AM); **SI**, Mar, May, Nov (L&D); **LI**: Central Pk., Ap (Eng).

MECYNOTARSUS LaFerte-Senectère

8325 **M. elegans** Lec. Buffalo (Z&R); Ramapo (Ds). Possibly the same as *flavicans* Csy. (Lg).

TOMODERUS LaFerte-Senectère

8334 **T. constrictus** Say. Phoenicia, Aug (NYS); **SI**, Feb, May (L&D).

AMBLYDERUS LaFerte-Senectère

8340 **A. granularis** Lec. Buffalo (Z&R).

8342 **A. pallens** Lec. **SI**, Aug–Sep, about plant roots at seashore (L&D).

ANTHICUS Paykull

8347 **A. formicarius** Laf. Mooers, Sep (Not); Lake Bluff, Sep, *Bish* (NYS); Buffalo (Z&R); Pike, Mar (NYS); **SI**, May, Sep, Nov (L&D); **LI**: Orient, Ap, *Lath* (NYS).

8348 **A. cinctus** Say. Chautauqua, Shokan (Lg); West Pt. (Robn); **SI,** Nov 6, *Joutel* (L&D); **LI:** Orient, *Lath* (NYS).

8350 **A. blandus** Csy. **SI,** May 18 (L&D); **LI:** Willetts Pt. (Csy).

8353 **A. obscurus** Laf. Buffalo (Z&R); Schoharie (Not); **LI:** Coney I., Jl (Lec).

8359 **A. sturmi** Laf. Cranberry L., Je 28, in box of fungi (H).

8372 **A. rejectus** Lec. "NY" (Lec).

8387 **A. floralis** L. Newport, Aug, Herkimer, Sep (NYS); Buffalo (Z&R); Batavia, Jl–Sep (Kngt); West Pt. (Robn); **SI,** Jl (L&D).

8397 **A. ephippium** Laf. Buffalo (Z&R); Batavia, Jl (Kngt); Westchester Co, *Palm* (AM); **SI,** Je 4 (L&D); **LI:** Orient Pt., May, *Lath* (NYS).

8402 **A. scabriceps** Lec. Montour Falls, Je (H); **SI,** Aug, under log on seashore, and in sand (L&D).

8403 **A. compositus** Csy. **LI:** Willetts Pt. (Csy).

8417 **A. cervinus** Laf. Cranberry L., Je (H); Buffalo (Z&R); E. Aurora, Je, Dec (Dnd); Batavia, Jl (Kngt); Westfield, May (Not); **SI,** Aug, on seashore, Je 4 (L&D); **LI:** Orient Pt., May, *Lath* (NYS); Coney I., Ap (NYS).

8448 **A. melancholicus** Laf. **SI,** Je 5, on seashore (L&D).

8454 **A. pubescens** Laf. Johnstown, Sep, Albany, Jl (NYS); **SI,** Nov 6, on salt meadow (L&D).

8461 **A. festinans** Csy. Mooers, Sep (Not); Windsor, Je (Not).

FAMILY **EUGLENIDAE**

ELONUS Casey

8475 **E. basalis** Lec. Buffalo (Z&R); Ludlow, *Thompson* (Lg); **LI:** Cold Sp. Harb., Jl, *Brb* (Sf).

ZONANTES Casey

8480 **Z. signatus** Hald. NY (Hald).

8481 **Z. subfasciatus** Lec. Mosholu (Sf).

8484 **Z. fasciatus** Melsh. NY (Hald); Newport, May (NYS); Buffalo (Z&R); Ludlow, *Thompson* (Lg).

VANONUS Casey

8492 **V. piceus** Lec. NY (Lec); Cranberry L., Je 23–Aug 4, in sweeping in marshy area, also flying about camp (H); Washington Co (Lg).

8494 **V. vigilans** Csy. Hudson Val. (Csy).

8495 **V. fusciceps** Csy. "Near NYC" (Csy).

TANILOTES Casey

8501 **T. densus** Csy. McLean, Aug (Flet).

FAMILY RHIPICERIDAE

SANDALUS Knoch

8544 **S. petrophya** Knoch. Near NYC; **SI**, on beach; Aug 27, on sidewalk (L&D).

8546 **S. niger** Knoch. Ithaca, Sep (Dt), late Aug, *P. Miller*, *Fbs* (FletCU); West Pt. (Robn).

FAMILY ELATERIDAE[42]

SUBFAMILY PYROPHORINAE

ADELOCERA Latreille

8553 **A. aurorata** Say. Buffalo (Z&R); Olcott, Je (Dt); Lake Bluff, Jl (NYS); Catskills, Je (Nic).

8554 **A. impressicollis** Say. Rochester (M&W).

8557 **A. brevicornis** Lec. Axton, Sep (M&H); Ausable Chasm, Sep, *Eng* (Sf); Batavia, Jl (Kngt); Catskills, Je–Jl, Aug (Nic, Ds).

8558 **A. obtecta** Say. Cranberry L., Jl (H); Rochester (M&W); Buffalo (Say–ANSP); Castile, *Brad* (Flet); E. Aurora, Nov (Dnd); Windsor, Je (Not); Ithaca, Je (Vdyk); Catskills, Je (Nic); Big Ind. Val., Jl, *Pears* (Sf); West Pt. (Robn); Pine I., Je (Sf); Mosholu, *Wat* (Lg).

8560 **A. marmorata** Fab. Paradox, Jl, Essex Co, Aug, Ilion, Je (NYS); Gloversville, Je (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora, Je (Dnd); Albany, Jl (NYS).

8561 **A. discoidea** Web. Olcott, Je (Dt); Rochester (M&W); Buffalo (Z&R); Ithaca, Jl, Ap (Vdyk); Taughannock Falls, Ap (Dt,Vdyk); Albany, Ap (NYS); Peekskill (Sherm); West Pt. (Robn); **SI**, Mar–Sep (L&D); **LI**: Aqueduct, May, Wyandanch, Feb (Quirs); Parkville, *Dietz* (Sf); Central Pk., Aug, *Eng* (Sf).

8562 **A. avita** Say. Cranberry L., Jl (H); Protection, Je (Dnd).

8563 **A. modesta** Boisd. Big Ind. Val., May, *Pears* (Sf).

LACON Castelnau

8564 **L. rectangularis** Say. Buffalo (Z&R).

ALAUS Eschscholtz

8571 **A. oculatus** L. EYED CLICK BEETLE. Adirondacks (Felt); Newport, May (NYS); Herkimer, Jl (Cy); Rochester (M&W); Leroy, Je (Cy); Honeoye Falls, Je (Ds); Buffalo (Z&R); Olcott, Oct (Dt); Castile, Jl, *Brad* (Flet); E. Aurora, Je–Jl (Dnd); Geneva, Ap, Je, Dec (Cls); Lorraine, Je (Cy); Ithaca, Je, Sep (CU); McLean Bogs, May 30 (CU); Albany, Je, Schenectady, Aug, Castleton, Dec (NYS); Poughkeepsie, Jl (Cy); Ramapo, May (Ds); Middletown, Je (Cy); West Pt. (Robn); Croton L., Je (Cy); **SI**, May–Jl (L&D); **LI**: Maspeth, Je (Ds); Flatbush, Babylon (AM); Jamaica, May (Quirs).

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[42] The list for this family has been checked by J. A. Hyslop, Alan S. Nicolay, and E. D. Quirsfeld. Mr. Nicolay and Mr. Quirsfeld have supplied many records.

8572 **A. myops** Fab. Gloversville, May–Je (NYS); Buffalo (Z&R); **SI** (L&D); **LI:** Central Pk., Ap (Eng); Coney I., Rockaway (Schmelter); Wyandanch, Wading R., May (Quirs); Pinelawn, Ap, Je, Yaphank, May, *Eng* (Sf).

HEMIRHIPUS Latreille

8576 **H. fascicularis** Fab. NY (Horn ANSP); NYC (*Sf*).

MONOCREPIDIUS Eschscholtz

8596 **M. lividus** DeG. **SI,** Jl (L&D); **LI:** Manor, Sep, *Eng* (Sf).

8601 **M. vespertinus** Fab. **SI** (L&D).

8607 **M. auritus** Hbst. Newport, Je (NYS); Olcott, Ap, Je (Dt); Buffalo (Z&R); Pike, Je (NYS); Ringwood, Jl, McLean Bogs, May (Dt); Windsor, Je (Not); Albany, Je (NYS); West Pt. (Robn); Van Cort. Pk. (AM); **SI,** Mar (L&D); **LI:** Rockaway Beach, May–Je (Ds, Sf); Astoria, Flatbush (AM); Wading R., May, Little Neck, Ap (Quirs).

8609 **M. bellus** Say. Ithaca, May–Je (Dt); West Pt. (Robn); Van Cort. Pk. (AM); **SI,** Mar–May, Oct (L&D).

AEOLUS Eschscholtz

8613 **A. amabilis** Lec. Vic. NYC (AM); **SI,** Mar, Je (L&D); **LI:** Rockaway, May–Je, *Eng* (Sf).

8614 **A. dorsalis** Say. Olcott, Feb–Oct (Dt); Buffalo (Z&R); Castile, Aug, *Brad* (Flet); Ithaca (US); West Pt. (Robn), as *elegans*; vic. NYC (AM); **SI,** May (L&D); **LI:** Rockaway Beach, May–Je, *Eng* (Sf); Flatbush, Ap, *Eng* (Sf).

PITYOBIUS LeConte

8617 **P. anguinus** Lec. Buffalo (Z&R); Ithaca, Je (Dt); Haines Falls, *Franck* (Sf); Catskills, Aug (Nic); **LI:** Bellport, Aug (Nic); Bayshore, Jl, *Olsen* (Ds); Yaphank (Sf); Wading R., Jl, *Eng* (Sf).

LIMONIUS Eschscholtz

8619 **L. auripilis** Say. Nassau, Poughkeepsie, May (NYS); Peekskill, Je, on Rumex (Sherm).

8624 **L. aurifer** Lec. Newport, Je (NYS); Cranberry L., *Htly* (H); Crown Pt., Je (NYS); Buffalo (Z&R); Westfield, May (Not); Catskills (Nic); North Branch (Schaupp); West Pt. (Robn).

8625 **L. propexus** Cand. Olcott, Jl (Dt); Buffalo (Z&R); **SI,** May–Jl (L&D).

?**L. griseus** Beauv. Buffalo (ANSP); E. Aurora, Allegany Pk (Dnd); Windsor, Je (Not); West Pt. (Robn); Ithaca, Ap, Jl–Aug (Dt); Ramapo, Nyack, Je (Ds); Van Cort. Pk. (AM); **LI:** Parkville (AM); Flatbush, Astoria (AM); Yaphank, Pinelawn, Je, *Eng* (Sf).

8627 **L. confusus** Lec. E. Aurora, Je (Dnd); Macedon, May, on quince blossoms (Horn); Ithaca, May–Je (Dt); Taughannock Falls, May (Dt); Ringwood, Jl (Vdyk); vic. NYC (AM); **SI,** Je (L&D); **LI:** Flatbush (US).

8629 **L. plebejus** Say. West Pt. (Robn); **SI,** May (L&D); **LI:** Flatbush (AM).

8631 **L. aeger** Lec. Cranberry L., Je–Jl (H); Schoharie (Not); Ramapo, May–Je (Ds); Catskills (Nic); Slide Mt., Jl, *Shoe* (Sf); West Pt. (Robn); vic. NYC (AM).

8632 **L. pectoralis** Lec. Mt. Seward, 4500 ft., Je (M&H). Described from Calif.

8633 **L. quercinus** Say. Ithaca, Aug, Taughannock Falls, Aug (Dt); Ft. Montgomery, Nyack, Ramapo, Je (Ds); West Pt. (AM); Mosholu (Sf); Van Cort. Pk., May (Nic); **SI,** May–Je (L&D); **LI:** Flatbush (AM); Yaphank, May, Jl, *Eng* (Sf).

8635 **L. basillaris** Say. West Pt., Ft. Montgomery, Je (Ds); Bear Mt., Jl (Quirs); Ramapo, Je (Ds); Bronx Pk. (Sf); **SI,** May–Je (L&D); **LI:** Bellport, Je (Nic); Yaphank, May, Pinelawn, Je, *Eng* (Sf).

NOTHODES LeConte

8639 **N. dubitans** Lec. E. Aurora, Je (Dnd); Castile, *Brad* (Flet); Ithaca, May–Je (Dt); Trenton (US).

PHELETES Kiesenwetter

8640 **P. stigma** Hbst. Castile, *Brad* (Flet); Ithaca, Ap–Je (Dt); Catskills, Ap (Flet); West Pt. (Robn); **LI:** Wading R., May, *Schott* (Sf).

8649 **P. anceps** Lec. Western NY (Lec); Windsor, Je (Not).

8650 **P. ectypus** Say. Pike (NYS); Castile, *Brad* (Flet); Danby, Je, Ithaca, May–Je (Dt); Callicoon (AM).

8653 **P. refinitus** Ziegl. Ramapo, May (Ds); West Pt., May, *Robn* (Sf); **SI,** May (L&D); **LI:** Flatbush (AM).

8654 **P. nimbatus** Say. West Pt. (Robn); **SI,** May (L&D); **LI:** Flatbush, May, *Zab* (Sf); Pinelawn, Je, *Eng* (Sf).

LEPTOSCHEMA Horn

8657 **L. bicolor** Lec. "NY" (Lec).

8658 **L. discalceatum** Say. Buffalo (Z&R); Ft. Montgomery, Aug, *Schott* (Sf).

8659 **L. oberndorferi** O. Schw. Described from NY.

ATHOUS Eschscholtz

8662 **A. brightwelli** Kby. Buffalo (Z&R); western NY, generally distributed (Dnd); Ringwood, Jl (Vdyk); Olcott, Jl (Dt); Catskills, Aug (Nic); Bear Mt., Jl (Quirs); **LI:** Bellport, Aug (Nic).

8663 **A. acanthus** Say. Newport, Je (NYS); Cranberry L., Je–Jl (H); West Pt. (Robn); **LI:** Bellport, Jl (Nic); Yaphank, Jl, *Eng* (Sf).

8663b **A. acanthus** var. **maculicollis** Lec. Buffalo (Z&R); **SI** (L&D).

8667 **A. cucullatus** Say. Cranberry L., Jl (H); Olcott, Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Jl (Vdyk); Catskills, Jl (Nic); Callicoon (AM); West Pt. (Robn); **SI,** Je–Jl (L&D); **LI:** Jamaica, Bellport, Jl (Nic).

8668 **A. scapularis** Say. Cranberry L., Je (H); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora, Jl (Dnd); Ithaca, Je (Dt); Catskills, Aug (Nic); West Pt. (Robn).

8676 **A. rufifrons** Rand. Axton, Je (M&H); Cranberry L., Je (H); Wanakena, Aug (Drk); Buffalo (Z&R); Enfield Glen, Jl (Dt); Catskills, Jl (Nic); **LI,** *Pears* (Sf).

LEPTUROIDES Herbst

8698 **L. productus** Rand. Cranberry L., Jl (H); Catskills (Nic); Oliverea, Jl (Quirs).

8699 **L. denticornis** Kby. Axton, Je (M&H); Wallface Mt., Je (Quirs); Cranberry L., Je–Jl (H); Hamilton Co (Ds); Castile, Je, *Brad* (Flet); McLean, May (Dt); Catskills, *Pears* (Sf); Slide Mt., Jl (Quirs).

LUDIUS Eschscholtz

8705 **L. virens** Schr. Mt. Whiteface (HyslopUS).

8706 **L. vernalis** Hentz. Adirondacks (Felt); Buffalo (Rein); Westfield, May (Not); Catskills, Je (Nic); Ithaca, May (Flet).

8707 **L. resplendens** Esch. Whiteface Mt., *Shoe* (Sf); Cranberry L., Jl (H); Catskills (Nic); Oliverea, Jl (Quirs); **LI:** Central Pk., Wading R., Wyandanch, May, as *splendens* (Ds).

8708 **L. sjaelandicus** Müller. Buffalo (Z&R), as *tesselatus*; E. Aurora, Je (Dnd); Ithaca, May (Dt); Windsor, Je (Not); Saratoga, as *cuprascens* (Lec); West Pt. (Robn); **LI:** Bellport, Je (Nic).

8715 **L. pyrrhos** Hbst. Buffalo (Z&R); Dunkirk (HyslopUS); E. Aurora, Aug (Dnd); Ringwood, Jl (Dt); Lava, Jl, *Eng* (Sf); Ft. Montgomery, Jl (Ds); **SI,** Je–Aug (L&D); **LI:** Coney I. (US); Jamaica, *Pears* (Sf); Jl–Aug (Nic).

8721 **L. cylindriformis** Hbst. Cranberry L., Jl (H); Syracuse, Ap–May (Quirs,H); Olcott, May (Dt); Buffalo (Z&R); E. Aurora, Ap (Dnd); Onondaga Co, May (Quirs); Ithaca, Ap–Je (Hyslop,Dt); Cortland Co, Je (Dnd); West Pt. (Robn); Tarrytown, Ap (Dt); Ramapo, Mar (Ds); Mosholu (Sf); **SI,** Ap–May (L&D); **LI:** Central Pk., Ap, on dead pines, *Eng* (Sf); Flatbush (AM); Wyandanch (Quirs); Pinelawn, Je, *Eng* (Sf).

8722 **L. copei** Horn. Catskills,, Je, *Nic* (Sf); Pine I., May, *Schott* (Sf).

8727 **L. fulvipes** Bland. Ithaca, May (Vdyk); Big Ind. Val., Oct, *Pears* (Sf); Catskills, *Pears* (Nic); West Pt. (Robn); vic. NYC (AM).

—— **L. exilis** Not. Schoharie (Not).

8729 **L. appressus** Rand. Mt. Seward, Je (M&H); L. Clear, Saranac Inn, Je (NYS).

8731 **L. vulneratus** Lec. Crusoe L., Wayne Co, *Bish* (Dt).

8734 **L. elongaticollis** Ham. Catskills, Jl, *Shoe* (Sf).

8738 **L. tarsalis** Melsh. Wallface Mt., Jl (Quirs); Buffalo (Z&R); Ithaca, Ap, Je (Dt); Catskills, Ap (Nic); West Pt., Je (Sf); Ft. Lee (US); NYC, Mar (Quirs); **SI,** Ap (L&D); **LI:** Jamaica, Ap (Nic); Wading R. (Quirs); Long Beach, May, *Eng* (Sf).

8739 **L. spinosus** Lec. Mt. Seward, 4500 ft., Je (M&H); Cranberry L., Je–Jl (H).

8741 **L. insidiosus** Lec. Wallface Mt., Jl (Quirs); Slide Mt. (US); Catskills, *Pears* (Sf).

8745 **L. falsificus** Lec. Catskills, *Pears* (Nic).

8748 **L. sulcicollis** Say. Cranberry L., Jl (H); Buffalo (Z&R); E. Aurora, May (Dnd); Geneva, Mar (Cls); Ithaca, Ap–May (Dt); Trenton (US); Catskills, Aug, *Pears* (Nic); West Pt. (Robn); **LI:** Central Pk., Ap, *Eng* (Sf).

8761 **L. aethiops** Hbst. West Pt., Jl, *Eng* (Sf); Bronx Pk. (Sf); **SI,** May–Jl (L&D); **LI:** Yaphank, Je (Ds).

8762 **L. hamatus** Say. Cranberry L., *Htly* (H); Olcott, May–Je (Dt); Buffalo (Z&R); Ithaca, May (Dt); West Pt., Je (Ds); Catskills, Je, *Pears* (Nic); Oliverea, Je (Quirs); Highland Falls (Quirs); Bronx Pk. (Sf).

8763 **L. propola** Lec. Buffalo (Z&R); Ithaca, May, Jl–Aug, *Eng* (Dt).

8766 **L. triundulatus** Rand. Wallface Mt., Jl (Quirs); Cranberry L., Jl (H); Wanakena, Aug (Drk); Catskills (Nic); **LI:** Rockaway, May, *Schott* (Sf).

8769 **L. medianus** Germ. Buffalo (Z&R); West Pt. (Robn).

8771 **L. fallax** Say. Slide Mt., Jl, *Shoe* (Sf); West Pt., Jl, *Eng* (Sf).

8772 **L. mirabilis** Fall. Keeseville (US). Described from Calif.

8776 **L. splendens** Ziegl. West Pt., *Robn* (Sf); **LI:** Wyandanch, Wading R., May (Quirs); Rockaway Beach, May, *Eng* (Sf).

8777 **L. aereipennis** Kby. Jay, Jl (Britton); New Baltimore, May (NYS); Buffalo (Z&R); Ithaca, Ap–Je, Caroline, Ap (Dt); West Pt. (Robn).

8778 **L. nigricornis** Panz. Cranberry L., Je (H); Wallface Mt., *Shoe* (Sf).

8779 **L. aratus** Lec. West Pt. (Robn).

8780 **L. inflatus** Say. Buffalo (Z&R); Erie Co, May–Aug (Dnd); Westfield, May (Not); Ithaca, Je–Jl (Dt); Schoharie (Not); West Pt., Je–Jl, *Eng* (Ds, Sf); Nyack, Je (Ds); Mosholu (Sf); Bronx Pk., Je (Ds); **SI,** Je (L&D); **LI:** Jamaica, *Pears* (Nic); Yaphank, May, Pinelawn, Je, *Eng* (Sf).

8791 **L. rotundicollis** Say. Buffalo (Z&R); Ithaca, Nov (Dt).

8793 **L. cruciatus** L. Catskills, May, *Pears* (Nic); Big Ind. Val., Je, *Pears* (Sf).

8796 **L. hieroglyphicus** Say. Whiteface (AldrichUS); Cranberry L., Je (H); Olcott, May–Jl (Dt); Buffalo (Z&R); E. Aurora, Ap–Aug, generally distributed (Ang); Geneva, Je (Cls); Elmira, Je, *Diven* (Dt); Ithaca, May–Jl (Vdyk); Windsor, Je (Not); Schoharie (Not); Eddyville, Jl (Hyslop, Dt); West Pt., Je (Ds); Pine I., Je (Ds); **SI,** Je (L&D); **LI:** Bellport, Jl (Nic); Orient Pt., Je (Ds); Rockaway Beach, Je, *Eng* (Sf); Long Beach, Yaphank, Je, *Eng* (Sf).

8802 **L. costalis** Payk. Wallface Mt., Jl (Quirs); Slide Mt., Je (Quirs).

8803 **L. estriatus** Lec. Wallface Mt., Jl (Quirs); Whiteface Mt., Je, *Shoe* (Sf).

HEMICREPIDIUS Germar

8813 **H. decoloratus** Say. Buffalo (Rein); Erie, Allegany, and Cortland Counties, Jl (Dnd); Ithaca, Jl–Aug, Ringwood, Jl, Taughannock Falls, Jl (Dt); Danby, Jl (Dt); Schoharie (Not); Catskills (US); West Pt. (Robn); Tarrytown, Je (Dt); **SI,** Je (L&D).

8814 **H. memnonius** Hbst. Cranberry L., Jl (H); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, May–Jl (Dnd); L. Minnewaska, Jl (Ds); West Pt. (Robn); **SI,** Jl–Aug (L&D); **LI:** Flatbush, Yaphank, Jl, *Eng* (Sf); Orient, *Lath* (NYS).

8815 **H. brevicollis** Cand. **SI,** Jl (L&D).

8817 **H. bilobatus** Say. Buffalo (Z&R); Ithaca, Aug, *Vdyk* (Dt); Windsor, Je (Not); Callicoon (AM); **LI:** Flushing, Aug, *Dow* (Sf).

CRYPTOHYPNUS Eschscholtz

8818 **C. hyperboreus** Gyll. Westfield, May (Not); Ithaca, Je–Jl (Dt); Oliverea (US).

8821 **C. exiguus** Rand. Newport, May (NYS); Axton, Je (M&H); Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ap–Jl (Vdyk); Freeville, Je (Vdyk); **SI,** May, on oak (L&D).

8826 **C. abbreviatus** Say. Wallface Mt., Jl (Quirs); Westfield, May (Not); Ithaca, Ap (Dt); Freeville, Je (Dt); Cortland (Dnd); Schoharie (Not); West Pt. (Robn); **LI:** Long Beach, May, *Eng* (Sf).

8828b **C. nocturnus** Esch. var. **bicolor** Esch. Whiteface Mt., 4000 ft., Aug 24, (Hyslop, Dt).

8831 **C. lecontei** Lg. Herkimer Co, *Dietz* (Sf); Pike (NYS); Ithaca, Ap, Je–Jl, Taughannock Falls, Ap (Dt); Catskills, Jl (Nic); Oliverea, Je, *Shoe* (Sf).

HYPNOIDUS Stephens

8832 **H. striatulus** Lec. Ithaca, Je–Jl (Vdyk); Windsor, Je (Not).

8834 **H. choris** Say. Windsor, Je (Not); **LI:** Wading R., May (Quirs).

8837 **H. melsheimeri** Horn. Newport, Je (NYS); Westfield, May, Windsor, Je (Not); Ithaca, May (Dt); Taughannock Falls, May (Vdyk).

8841 **H. tumescens** Lec. Catskills, Jl (Nic); Stony Pt., Je (Ds).

8844 **H. aestivus** Horn. Altamont, Sep (NYS).

8848 **H. obliquatulus** Melsh. Windsor, Je (Not); N. Evans, May 14, *MCV* (Frost); Nassau, May (NYS); Catskills, Jl (Nic); Peekskill, Je (Ds); **SI,** usually on moist sandy banks (L&D).

8849 **H. pectoralis** Say. Newport, Je (NYS); central NY (US); Catskills, Jl (Nic); Oliverea, Jl (Quirs); West Pt. (Robn).

—— **H. felti** Not. Westfield, May (Not).

OEDOSTETHUS LeConte

8850 **O. femoralis** Lec. Buffalo (Z&R); Irving, Je (Dnd); Schoharie (Not).

MELANACTES LeConte

8853 **M. piceus** DeG. E. Aurora, Aug (Dnd); West Pt., Je (Ds); Bear Mt., Je (Quirs); **SI,** May–Jl (L&D).

8855 **M. morio** Fab. West Pt. (Robn); **SI,** Jl (L&D).

8856 **M. puncticollis** Lec. **LI:** Jamaica (Nic).

OESTODES LeConte

8859 **O. tenuicollis** Rand. Essex Co, Jl (Quirs); Cranberry L., Jl–Aug (H); Buffalo (Z&R); Irving, Je (Dnd); Ithaca, Jl (Vdyk); Schoharie (Not); Catskills (HyslopUS).

SUBFAMILY ELATERINAE

PARALLELOSTETHUS O. Schwarz

8861 **P. attenuatus** Say. West Pt. (Robn); Bronx (Sf).

CRIGMUS LeConte

8866 **C. abruptus** Say. Speculator, Aug, Lake Bluff, Jl (NYS); Buffalo (Z&R, US); Batavia, Jl (Kngt); Castile, Aug, *Brad* (Flet); Poughkeepsie, Jl (NYS); West Pt. (Robn); **LI:** Bellport, Aug (Nic); Yaphank, Jl, *Eng* (Sf).

OXYGONUS LeConte

8875 **O. obesus** Say. Buffalo (Z&R); E. Aurora, May–Jl (Dnd); Ithaca, Ap–May (Vdyk); McLean Bogs, May (Dt); Schoharie (Not).

8876 **O. montanus** Sf. Slide Mt., Catskills, Jl, *Shoe* (Ds, Sf).

DOLOPIUS Eschscholtz

8878 **D. lateralis** Esch. Axton, Je (M&H); Cranberry L., Je, on Viburnum, maple, beech, willow, and goldenrod (H); Wanakena, Aug (Drk); Olcott, Ap–Jl (Dt); Buffalo (Z&R); E. Aurora, May–Aug (Dnd); Westfield, May (Not); Ithaca, May–Jl (Dt); McLean Bogs, May (Dt); Ringwood, Jl (Dt); Windsor, Je (Not); Ft. Montgomery, May (Ds); West Pt. (Robn); **SI**, May–Jl (L&D); **LI:** Woodside, May (Sf); Rockaway Beach, May, *Eng* (Sf).

SERICUS Eschscholtz

8881 **S. viridanus** Say. West Pt. (Robn); Bronx Pk., *Dietz* (Sf); **SI** (L&D); **LI:** Yaphank, May (Ds).

8882 **S. incongruus** Lec. Cranberry L., Je 18 (H); Redford, *Martin* (Sf); Windsor, Je (Not).

8883 **S. silaceus** Say. Buffalo (Z&R); E. Aurora, Je, Boston, May, Allegany Pk., Aug (Dnd); Windsor, Je (Not); Ithaca, Je–Jl (Dt); West Pt., Je (Ds); **SI** (L&D); **LI:** Pinelawn, Yaphank, May–Je, *Eng* (Ds); Babylon (AM).

8884 **S. honestus** Rand. Catskills, Jl, *Shoe, Pears* (Nic, Sf); Oliverea (Shoe, US).

AGRIOTES Eschscholtz

8885 **A. mancus** Say. Buffalo (Z&R); Erie Co, Je–Jl (Dnd); Cooperstown, Je (Cy); Locke, May (Felt); Castile, July, *Brad* (Flet); Bath, Aug (Hyslop–CU Econ); Ringwood, Jl, Sep (Dt); Ithaca, Je–Jl (Leon); Windsor, Je (Not); West Pt. (Robn); Florida, May (CU); Pine I., Jl (Ds); NYC (US); **SI**, Mar–Je (L&D); **LI:** Huntington, Ap, Rockaway, Je, Glendale, Ap (Quirs); Flatbush, Ap, Jamaica, May, *Eng* (Sf).

8886 **A. stabilis** Lec. Axton, Je (M&H); Cranberry L., Je–Jl (H); Olcott, Je–Jl (Dt); Buffalo (Z&R); Avon, Je (Cls); Catskills (Nic).

8887 **A. insanus** Cand. West Pt., Ramapo, May–Je (Ds); **SI,** May–Je (L&D); **LI:** Wading R., May 30 (Nic).

8888 **A. fucosus** Lec. Axton, Je (M&H); Cranberry L., Je–Jl (H); Olcott, Je (Dt); Buffalo (Z&R); Allegany Pk. and Cortland Co, Je (Dnd); Catskills, *Pears* (Nic); Ithaca, May (Dt).

8888a **A. fucosus** var. **collaris** Lec. "NY", *Dietz* (Sf).

8893 **A. pubescens** Melsh. Cranberry L., Je, on maple blossoms (H); Buffalo (Z&R); E. Aurora, Je (Dnd); Windsor, Je (Not); Ithaca, Je–Jl (Dt); Catskills, *Pears* (Nic); West Pt. (Robn); **SI,** May (L&D).

8894 **A. limosus** Lec. Whiteface Mt., Jl, *Shoe* (Ds, Sf); Mt. Seward, 4500 ft., Axton, Je (M&H); Cranberry L., Je–Jl (H); Wallface Mt., Jl (Quirs); West Pt. (Robn).

8897 **A. oblongicollis** Melsh. Castile, *Brad* (Flet); E. Aurora, Je (Dnd); Bear Mt., Jl, Hewlett, Je (Quirs); Ft. Montgomery, Nyack, Ramapo, May–Je (Ds); West Pt. (Robn); **SI,** May–Je (L&D); **LI:** Bellport, Je (Nic); Yaphank, Je, *Eng* (Sf).

8900 **A. avulsus** Lec. "NY", *Dietz* (Sf).

BETARMON Kiesenwetter

8904 **B. bigeminatus** Rand. Bear Mt., Jl (Quirs); Ft. Montgomery, Je, *Schott*, West Pt., Je, *Eng* (Sf).

GLYPHONYX Candeze

8906 **G. recticollis** Say. Schoharie (Not); **SI,** Je (L&D).

8909 **G. testaceus** Melsh. **SI,** Jl (L&D).

8910 **G. inquinatus** Say. Montour Falls, Je (H).

ELATER Linnaeus [43]

8929 **E. cordatus** Horn. Cranberry L., Jl (Drk).

8932 **E. pullus** Germ. Axton, Je (M&H); Cranberry L., Je, on willow (H); Whiteface Mt., Sep (AM); Buffalo (Z&R); Catskills, *Pears* (Sf).

8934 **E. nigricollis** Hbst. Cranberry L., Jl 20 (H); Olcott, May, Sep (Dt); Buffalo (Z&R); E. Aurora, Mar, Je (Dnd); Geneva, Ap, Oct–Nov (Cls); Ithaca, Ap, Je, Nov (Dt); McLean Bogs, May (Dt); Cooks Falls, Oct, Yonkers, Ap–Nov (Quirs); West Pt. (Robn); **SI,** Feb–Je (L&D); **LI:** Little Neck, Nov, Queens, Nov, Wyandanch, Ap (Quirs); Pinelawn, Central Pk., Ap, *Eng* (Sf); Hewlett, Ap–May (Quirs).

8935 **E. linteus** Say. Syracuse, Ap, under bark (H); Buffalo (Z&R); E. Aurora, May, Sep–Oct (Dnd); Montour Falls, Ap 23 (H); Geneva, Sep–Oct (Cls); Ithaca, Je (Dt); Catskills, Je (Nic); Yonkers, Nov, Valhalla, Ap (Quirs); **SI,** Ap–Je (L&D); **LI:** Bellport, Je (Nic); Wyandanch, Ap, Little Neck, Ap–Nov (Quirs); Cold Sp. Harb., Ap, *Eng* (Sf).

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[43] H. S. Barber points out that the Elater of authors is not the Elater of Linnaeus, wherefore Ampedus Dejean must be used.

8936 **E. sellatus** Dej. E. Aurora, May (Dnd); Castile, Je, *Brad* (Flet); Ithaca, Je (Vdyk, Dt); Freeville, Je (Vdyk, Dt); vic. NYC (AM); **SI,** Feb 2, under bark (L&D).

8937 **E. vitiosus** Lec. Buffalo (Z&R); Ithaca, Je (Dt); Windsor, Je (Not); Trenton (US); Yonkers, Feb (Quirs).

8938 **E. laesus** Lec. Buffalo (Z&R); E. Aurora, May–Je (Dnd); Ithaca, Je (Dt); Catskills, Je, *Pears* (Nic).

8939 **E. sayi** Lec. Buffalo (Lec–ANSP); NYC, May (Quirs); Bronx Pk. (Sf); **SI,** May (L&D).

8940 **E. verticinus** Beauv. Buffalo (Z&R); West Pt. (Robn); Mosholu (Sf); vic. NYC (AM); **SI** (L&D); **LI:** Wyandanch, Ap (Quirs); Yaphank, May–Je, *Eng* (Sf).

8941 **E. semicinctus** Rand. Olcott, Je–Jl (Dt); Buffalo (Z&R); E. Aurora, May–Je, Grand I., Je (Dnd); Ithaca, Ap–May, Sep (Dt); Taughannock Falls, Ap (Dt); McLean (US); Trenton (US); Catskills, Je, *Pears* (Nic); West Pt. (Robn); Ft. Montgomery, May (Ds); Cooks Falls, Sep, Yonkers, Feb–Mar (Quirs).

8942 **E. militaris** Harr. Ithaca, Sep 16 (Dt); West Pt. (Robn); **SI** (L&D).

8943 **E. rubricus** Say. Axton, Je (M&H); Cranberry L., Je–Jl (H); Buffalo (Z&R); E. Aurora, Allegany Pk., Je–Aug (Dnd); Geneva, Sep–Oct (Cls); Ithaca, Ap–May (Dt); McLean Bogs, May (Dt); Windsor, Je (Not); Otsego Co (US); Trenton (US); Pine I., Je (Ds); **SI,** May–Jl (L&D); **LI:** Woodside, Je (Sf); Yaphank, May, *Eng* (Sf).

8948 **E. collaris** Say. Buffalo (Z&R); West Pt., Je (Ds); **SI,** May–Jl (Nic, L&D); **LI:** Bellport, Jl (Nic); Central Pk., May (Ds); Yaphank, May (Ds); Wyandanch, Jl (Quirs); Hempstead Plains, May, *Eng* (Sf).

8950 **E. sanguinipennis** Say. Cranberry L., Je–Jl (H); E. Aurora, May (Dnd); Castile, *Brad* (Flet); Geneva, Mar, Oct (Cls); **SI,** Ap–May (L&D); **LI:** Jamaica, Jl, *Pears* (Nic); Woodside, Ap (Sf).

8951 **E. xanthomus** Germ. **SI** (US); **LI:** Bellport, Je (Nic); Central Pk., May (Ds); Melville (US); Wyandanch, Ap (Quirs).

8953 **E. apicatus** Say. Saranac Inn, Je (NYS); Whiteface Mt. (US); Wallface Mt., Jl (Quirs); Johnstown, Oct (NYS); Buffalo (Z&R).

—— **E. longipennis** Not. Cranberry L., *Htly*, Montour Falls, Je, with query (H); Bear Mt., Jl (Quirs).

8955 **E. obliquus** Say. Buffalo (Z&R); E. Aurora, Jan, E. Elma, Je (Dnd); Madison Co, May 20, *Quirs* (H); Windsor, Je (Not); Callicoon (AM); West Pt. (Robn); **SI** (L&D); **LI:** Jamaica, *Pears* (Nic).

8955a **E. obliquus** var. **areolatus** Say. Castile, *Brad* (Flet); Ithaca, Jl (Vdyk); Schoharie (Not); **SI,** Sep (L&D).

8956 **E. pusio** Germ. **LI** (US).

8959 **E. manipularis** Cand. Olcott, Sep (Dt); E. Aurora, May, Allegany Pk., Jl (Dnd); Ithaca, Mar–Ap (Dt); **LI:** Bellport, Jl (Nic).

8960 **E. pedalis** Germ. Axton, Je (M&H); Buffalo (Z&R); Ithaca, May–Je (Dt); Pine I., Je (Ds); **SI,** Je (L&D); **LI:** Jamaica, Jl (Nic).

8964 **E. mixtus** Hbst. Axton, Je (M&H); Wallface Mt. (Quirs); Cranberry L., Je–Jl (H); Buffalo (Z&R); Ithaca, Jl (Dt); Ringwood, Jl (Dt); McLean Bogs, Jl, as *fusculus* (Hyslop, Dt); West Pt. (Robn); **SI,** May (L&D).

8965 **E. impolitus** Melsh. Ithaca, Je–Jl (Vdyk, Dt); Ringwood, Jl (Vdyk, Dt); Catskills, Je, *Pears* (Nic); **LI:** Jamaica (Nic).

8966 **E. socer** Lec. Mt. Seward, Je (M&H); Schoharie (Not); Ft. Montgomery, Jl, *Schott* (Sf).

8968 **E. luctuosus** Lec. Cranberry L., Je–Jl (H); Buffalo (Z&R); McLean Bogs, May (Dt).

8969 **E. nigricans** Germ. Wallface Mt., Jl (Quirs); Mt. Seward, Je (M&H); Cranberry L., Je–Jl (H); Olcott, Sep (Dt); E. Aurora, Je (Dnd); Windsor, Je (Not); West Pt. (Robn); Ithaca, May–Je (Dt); Ft. Montgomery, Je, *Schott* (Sf); **SI:** May–Je (L&D); Silver L., Jl (Sf); **LI:** Flatbush (AM).

—— **E. longipennis** Not. Westfield, May (Not).

ECTAMONOGONUS Buysson

8971 **E. melsheimeri** Lg. Cranberry L., Jl 17 (H); E. Aurora, May, Boston, Je (Dnd); Trenton (US); **SI,** Dec (L&D); **LI:** Aqueduct, May, Forest Pk., Ap, *Schott* (Sf); Port Jefferson, Aug, *Murphy* (Sf); Orient, *Lath* (NYS).

MEGAPENTHES Kiesenwetter

8980 **M. limbalis** Hbst. **SI,** Jl–Aug (L&D); **LI:** Bellport, Jl (Nic); Aqueduct (Ds); Flatbush (AM); Babylon, *Johnson* (Sf).

8983 **M. rufilabris** Germ. Mosholu (*Sf*).

8988 **M. stigmosus** Lec. Cranberry L., Aug (Drk).

MELANOTUS Eschscholtz

9015 **M. castanipes** Payk. Cranberry L., Je–Jl (H); Buffalo (Z&R); E. Aurora, May–Je (Dnd); Debruce, Jl (Quirs); West Pt. (Robn); **SI,** Je (Quirs); **LI:** Bellport, Jl (Nic); Sayville, Jl (Quirs).

9016 **M. corticinus** Say. E. Aurora, Je (Dnd); **LI:** Jamaica, *Pears* (Nic).

9018 **M. macer** Lec. "NY" (Lec).

9019 **M. decumanus** Er. Protection, Je (Dnd); NYC, Ap (Quirs); **SI,** Jl 2, at electric light (L&D).

9020 **M. canadensis** Cand. E. Aurora, May–Sep, common under bark (Dnd).

9022 **M. clandestinus** Er. **LI:** Orient, *Lath* (NYS).

9025 **M. ignobilis** Melsh. Ft. Schuyler, Je (Quirs); **LI:** Bellport, Aug (Nic).

9026 **M. depressus** Melsh. E. Aurora, May–Jl (Dnd).

9029 **M. trapezoideus** Lec. Bear Mt., Je (Quirs); **LI:** Wading R., May 20 (Nic).

9030 **M. taenicollis** Lec. **SI,** Je (L&D); **LI:** Flatbush (AM).

9031 **M. leonardi** Lec. West Pt. (Robn); Bear Swamp, Ramapo Mts., Jl (Ds); Bear Mt., Jl (Quirs).

9033 **M. glandicolor** Melsh. Catskills, Jl, *Pears* (Nic).

9034 **M. divarcarinus** Blatch. Schoharie (Not).

9035 **M. communis** Gyll. Buffalo (Z&R); Erie Co, May–Sep (Dnd); Montour Falls, Je (H); Orange Co (Felt); NYC, Mar (Quirs); West Pt. (Robn); **SI,** Ap–Je, Nov (L&D); **LI:** Orient Pt., Je, *Lath* (Ds); Hewlett, Je (Quirs).

9036 **M. fissilis** Say. Cranberry L., Je–Jl (H); Syracuse, May, under bark (H); Buffalo (Z&R); E. Aurora, Je–Jl (Dnd); Ithaca, Jl (Vdyk); Ringwood, Jl (Vdyk); West Pt. (Robn); NYC, Ap (Quirs); **SI,** May–Je, Sep (L&D).

9040 **M. parumpunctatus** Melsh. Catskills, Je, *Pears* (Nic); West Pt. (Robn); Bear Mt., Jl (Quirs); **SI,** Je–Jl (L&D).

9048 **M. pertinax** Say. Buffalo (Z&R); **SI,** Jl (L&D); **LI:** Bellport, Je (Nic).

9049 **M. dubius** Lec. "NY" (Lec).

9051 **M. americanus** Hbst. Pike (NYS); West Pt. (Robn); Bear Mt., Jl (Quirs); **SI,** Je–Jl (L&D).

9059 **M. sagittarius** Lec. E. Aurora, May (Dnd); **LI:** Bellport, Je–Aug (Nic).

9060 **M. difficilis** Blatch. Westfield, May (Not); Windsor, Je (Not).

9061 **M. pilosus** Blatch. E. Aurora, Cortland Co, May (Dnd).

9066 **M. similis** Kby. "NY" (Fitch).

—— **M. hyslopi** VanD. Greenwood L., Jl (AM).

SUBFAMILY CARDIOPHORINAE

CARDIOPHORUS Eschscholtz

9071 **C. cardisce** Say. Rochester (M&W); Buffalo (Z&R); **SI,** Je (L&D); **LI:** Coney I. (F. Blanchard); Woodhaven, May (Vdyk,Dt); Babylon (AM); Rockaway, Je (Quirs); Amagansett, May, *Eng* (Sf); Rockaway Beach, Je, Sep, *Olsen, Schott, Eng* (Sf).

9082 **C. convexus** Say. Olcott, Jl (Dt); Karner, Je–Jl (NYS); West Pt. (Robn); **SI,** May–Je (L&D); **LI:** Wading R., May, *Schott,* Rockaway Beach, May, *Eng* (Sf).

9087 **C. gagates** Er. Axton, Je (M&H); Rochester (M&W); Boston, May (Dnd); Ithaca, Jl (Vdyk, Dt); Karner, Je (NYS); Mosholu (AM); Fishkill (US); West Pt. (Robn); **SI,** May–Je (L&D); **LI:** Wading R., May, very common (Nic); Hewlett, Je (Quirs); Pinelawn, Je, Yaphank, May, *Eng* (Sf).

9092 **C. convexulus** Lec. Newport, May (NYS); Rochester (M&W); West Pt. (Robn); vic. NYC (AM); **LI:** Wading R., May (Nic).

9098 **C. robustus** Lec. Karner, Ap–May (NYS); **LI:** Jamaica, May, *Pears* (Nic).

HORISTONOTUS Candeze

9104 **H. vulneratus** Horn. Buffalo (Z&R); **LI:** Wading R., May 30 (Nic). Hyslop queries these records, since this is an Arizona species.

9114 **H. curiatus** Say. West Pt. (Robn); Bronx Pk. (Sf).

FAMILY MELASIDAE

SUBFAMILY EUCNEMINAE

MELASIS Olivier

9125 **M. pectinicornis** Melsh. Mosholu (Sf). Oak (Felt).

ISORHIPIS Lacordaire

(*Tharops* Castelnau)

9127 **I. ruficornis** Say. Pike, Je (NYS); Newport, Je (NYS); Cranberry L., Jl (Hatch); Rochester (M&W); Olcott, Je (Dnd); Buffalo (Say ANSP); E. Aurora, Je (Dnd); Ithaca, Je–Jl (Dt); Greenwood L. (Sf); West Pt., Je (Sf); Catskills, Je–Jl (Pears); **SI,** Je–Jl, often on beech (L&D); **LI:** Jl, *Eng* (Sf); Montauk Pt., Aug, *Eng* (Not).

STETHON LeConte

9130 **S. pectorosus** Lec. Rochester (M&W); Batavia, Jl (Kngt).

DELTOMETOPUS Bonvouloir

9133 **D. amoenicornis** Say. Newport, Je (NYS); Cranberry L., Jl (H); Wanakena, Aug (Drk); Rochester (M&W); Buffalo (Z&R); Olcott, Je (Dt); E. Aurora, Jl (Dnd); Canadaigua (Bonv); Ithaca, Jl–Aug (Vdyk); McLean, Aug (Vdyk); Catskills, Je–Jl (Nic); Van Cort. Pk., Je–Jl (Nic); Mosholu (Sf); **SI,** on dead beech (L&D); **LI:** Yaphank, Je (Sf).

9134 **D. rufipes** Melsh. Olcott, Je (Dt); NYC (Sf).

DROMAEOLUS Kiesenwetter

9136 **D. sejunctus** Bonv. Canandaigua (Bonv); **LI** (Horn).

9141 **D. striatus** Lec. "NY" (Horn).

9142 **D. harringtoni** Horn. "NY" (Horn).

9143 **D. cylindricollis** Say. Buffalo (Z&R); Mosholu (Sf).

9144 **D. marseuli** Bonv. Canandaigua (Bonv).

FORNAX Castelnau

9147 **F. calceatus** Say. Cranberry L., Jl (H).

9150 **F. orchesides** Newn. Saranac Inn, Jl (NYS); Cranberry L., Je–Jl (H); Wanakena, Aug (Drk); Trenton Falls (Newn); Rochester (M&W); Buffalo (Z&R); **LI:** Bellport, Aug (Nic).

MICRORHAGUS Eschscholtz

9154 **M. pectinatus** Lec. "NY" (Horn).

9155 **M. audax** Horn. NYC (Sf).

9156 **M. imperfectus** Lec. (*subsinuatus* Lec.). Johnstown (Yg NYS); Rochester (M&W); E. Aurora, Aug (Dnd); Bellport, Jl (Nic); Mosholu, Greenwood L. (Sf).

9157 **M. triangularis** Say. Bronx Pk (Dt); Mosholu (Sf); **SI** (L&D).

9159 **M. bonvouloiri** Horn. Rochester (M&W); Buffalo (Z&R); NYC and vic. (Sf).

ENTOMOPHTHALMUS Bonvouloir

9161 **E. rufiolus** Lec. NYC and vic. (Sf).

NEMATODES Latreille

9167 **N. penetrans** Lec. **LI:** Gardiners I., Jl, *Eng* (Sf).

HYPOCOELUS Eschscholtz

9172 **H. frontosus** Say. Adirondacks, *Martin* (Sf); NYC and vic. (Sf); **SI,** Jl (L&D).

9173 **H. terminalis** Lec. "NY" (Lec ANSP).

SCHIZOPHILUS Bonvouloir

9174 **S. subrufus** Rand. NYC and vic. (Sf).

EPIPHANIS Eschscholtz

9175 **E. cornutus** Esch. "NY" (Lec); Cascade (Springville, Erie Co), Jl, *MVD* (Frost).

PHLEGON Castelnau

9176 **P. heterocerus** Say. **LI:** Bellport, Aug, *Nic* (Sf).

SUBFAMILY PEROTHOPINAE

PEROTHOPS Erichson

9180 **P. mucida** Gyll. **LI:** Queens, Je, *Eng* (Sf).

FAMILY THROSCIDAE

DRAPETES Dejean

9182 **D. geminatus** Say. Buffalo (Z&R); Catskills, *Pears* (Nic); Ramapo, May (Ds); Van Cort. Pk. (*Pears,* Nic).

9185 **D. quadripustulatus** Bonv. Buffalo (Z&R).

AULONOTHROSCUS Horn

9191 **A. punctatus** Bonv. Newport (NYS); Albany, Je (NYS); Catskills, Jl *Pears* (Nic).

9195 **A. constrictor** Say. Newport, Speculator, Je (NYS); Axton, Je (M&H); Cranberry L., Je–Jl (H); Buffalo (Z&R); Ithaca, Je (CU); Windsor, Je (Not); Schoharie (Not); Catskills, Jl, *Pears* (Nic).

9198 **A. distans** Blanch. Je–Jl, Cranberry L. (H).

9200 **A. convergens** Horn. "NY" (Lg Cat.).

THROSCUS Latreille

9204 **T. chevrolati** Bonv. Axton, Je (M&H); Cranberry L., Je (H); Syracuse, May (H); Olcott (Dt); Westfield, May (Not); Buffalo (Z&R); Ithaca, Feb–Aug (Dt); Nassau, May (NYS); **SI,** Ap, in sifting (L&D); **LI:** Rockaway Beach, May (Nic).

FAMILY BUPRESTIDAE [44]

ACMAEODERA Eschscholtz

9286 **A. tubulus** Fab. Common throughout the State (Nic). Rochester (M&W); L. Keuka, May (Vdyk–CU); Coy Glen, May, Ithaca, May–Je (Vdyk–CU); W. Danby, May (Vdyk–CU); Nassau, May (Yg); W. Hebron, Je (Lg); Peekskill, May (Sherm); West Pt., Je (Ds); Ramapo, May (Lg); Suffern (AM); **SI,** May (L&D); **LI:** Half Way Hollow Hills, Jl (Ds); Yaphank, May–Jl (Ds, Sf). Larva in hickory, white oak, and redbud (Fisher).

CHALCOPHORA Solier

9316 **C. virginiensis** Dry. Locally common wherever pines occur (Nic). Peru, Je (Vdyk–CU); New Russia, Je (NYS); top of Mt. Whiteface, Jl (Ds); Cranberry L., Jl (Mund); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Yates Co (AM); Ithaca, Je–Oct (Vdyk–CU); Karner, Je–Aug (Yg); Slingerlands, Oct (NYS); New Baltimore (AM); **SI,** May (L&D). Larva in both hard and soft pines (Fisher).

9317 **C. lacustris** Lec. Ausable Chasm, Je (Vdyk–CU); Hague, Oct (AM). Nicolay regards this as a synonym of *virginiensis.*

9320 **C. fortis** Lec. Local and rare (Nic). Keene Val., Je (Ds); Long L. (Lg); Axton, Je (M&H); Newport, Jl (NYS); Valcour I., Jl, Black Br. (Lg); Fulton (Vdyk–CU); Rochester (M&W); Buffalo (Z&R); Conesus, Aug (Ds); Ithaca, May–Jl (Vdyk–CU); Pittstown, Oct (NYS); Croton-on-Hudson, Je–Jl (Ds); West Pt., Je (Ds, Robn). Larva in white pine (Fisher).

9321 **C. liberta** Germ. Locally common (Nic). New Russia, Je (NYS); Brant L., *Doll* (Sf); Syracuse (Blkm); Buffalo (Z&R); Enfield Glen, Je (Dt); Karner, Je, Schuylerville, Je (NYS); Albany, May (NYS).

CHALCOPHORELLA Kerremans

9323 **C. campestris** Say. Somewhat rare in NY (Nic). Buffalo (Lg–AM); West Pt. (Sf); vic. NYC (AM). Larva in beech, willow, buttonwood, and sugar maple (Fisher); in tulip tree (Felt).

TRACHYKELE Marseul

9332 **T. lecontei** Gory. **LI:** Brooklyn, one specimen from introduced lumber (Lg). Larva in cypress in the South (Fisher).

DICERCA Eschscholtz

9333 **D. divaricata** Say. Widely distributed and common. Mt. Whiteface, Jl (Ds); Mt. Seward, 4500 ft., Je (M&H); Axton, Je (M&H); Cranberry Cr., Je, *Cr* (Vdyk); Cranberry L., Je–Aug (Mund); Keene Val., Jl, Newport, May, Big Moose, Jl, Fultonville, Je (NYS); Redford, Peru, Black Br., Je (Vdyk); Ilion, Jl (NYS); L. Clear, Jl (Yg);

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[44] W. S. Fisher and Alan S. Nicolay have gone over the list for this family and have made many suggestions and changes in synonymy. Mr. Fisher particularly has supplied the New York State food-plants for most of the species, where these were known.

Manlius, May (Vdyk); Syracuse, Je–Jl (Blkm); Holley, Je (Vdyk); Honeoye Falls, Je, *Leon* (Vdyk); Rochester (M&W); Olcott, Je–Aug (Dt); Conesus L., Je (Ds); E. Aurora (Dnd); Batavia, *Kngt* (Morr); Buffalo (Z&R); Portageville (Ds); Westfield, Je (NYS); Rock City, Je (Vdyk); Castile, *Brad* (Flet); Ithaca, May–Jl (Vdyk, etc.); McLean Bogs, May–Aug (Vdyk); Elmira (Diven); W. Hebron (Lg); Schuylerville, Je (Yg); Albany, Jl, Karner, Je, Nassau, Aug, Glenmont, Je (NYS); New Baltimore, *Zab* (AM); E. Jewett, Aug, West Pt., May–Je (Ds); Croton-on-Hudson, Jl (Ds); Debruce (Shoe); Peekskill (Vdyk); Nyack, *Zab* (AM); Ramapo Mts. (AM); Mosholu (Ds); Grahamville, Jl (NYS); Bronx Pk. (AM); **SI**, Mar–Sep (L&D); **LI**, Jl, *Eng* (Sf). Larva in black birch, ironwood, linden, white ash, sugar maple, redbud, American elm, and black ash (Fisher); in apple, pear, cherry, and plum (Felt).

9334 **D. caudata** Lec. Adirondacks (Csy); E. Aurora, Je (Dnd); Ithaca, May, Oct (Vdyk); Catskills (Nic); Bangall, Sep, *Eng* (Sf); Ludlow (Lg); White Plains, Oct (Lg); Pine I., Je (Ds); NYC, Jl (Lg); **SI:** Richmond (L&D); **LI:** Bay Shore, Jl, *Ols* (Frost); Flushing, Je (AM). Larva in black birch (Fisher).

9335 **D. prolongata** Lec. Plattsburg, Jl (Ds); Mt. Whiteface, Jl, *Shoc* (Sf); Wilmington, Jl–Aug (Ds); E. Aurora, Je (Dnd); Ithaca, Je–Aug (Vdyk, Sf); Windsor, Je (Not). Larva in aspen and willow (Fisher).

9337 **D. punctulata** Schön. Taken commonly in beating pine, May–Sep (Nic); Buffalo (Z&R); L. Keuka, May, *Cr* (Vdyk); Ithaca, Ap–Aug (Vdyk); Karner, Mar, Je (NYS); Peekskill, Feb (Sherm); West Pt., Je (Ds, Not); **SI:** Richmond, Ap–Jl (L&D); **LI:** Central Pk., Aug (Ds); Rockaway (AM); Astoria (Lg); Bellmore, Sep, *Eng* (Sf); Massapequa, May (Shoe); Pinelawn, Bald Hill, Aug (Ds); Bellport, Je–Aug (Nic); Yaphank, Jl–Sep (*div.*); Amagansett, Sep (Ds); Deep Pond, Wading R., Jl–Aug, *Eng* (Ds). Larva in pitch pine (Fisher).

9340 **D. pugionata** Germ. A rather rare species (Nic). Rochester (M&W); Ithaca, Je–Sep (Vdyk); Catskills, Jl (Nic); Albany, May, *Lint* (NYS); West Pt., May (Ds); Minnewaska, Aug (Nic); Ft. Montgomery, Sep, *Schott* (Frost); Phoenicia, Aug, *MCV* (NYS); Bangall, Sep, *Eng* (Sf); Greenwood L., May (Sf); **LI:** Wyandanch, Oct, *Schott* (Frost). Larva in witch-hazel, alder, and Spiraea (Fisher); in oak and maple (Felt).

9341 **D. obscura** Fab. Buffalo (Z&R, Csy); E. Aurora (Dnd); Geneseo, Je (NYS); Ithaca (Vdyk); West Farms, Aug (AM); Bronx Pk., May–Jl (Lg); **SI:** Richmond, Long Neck, Feb–Sep, on hickory and often on persimmons (L&D). Larva in persimmon (Fisher).

9342 **D. lurida** Fab. The most abundant species in the State (Nic). Newport, Jl (NYS); Syracuse, hundreds bred from dead hickory (Blkm); Rochester (M&W); Honeoye Falls (Vdyk); Hamburg, Aug (NYS); Sonyea, Je (Vdyk); Ithaca, Ap–Oct, McLean Bogs, May (Vdyk); Elmira, Jl (Diven); Hague, L. George, Aug (Diven); Schoharie (Not); W. Hebron, Je (Lg); Poughkeepsie, May (NYS); West Pt., Je, Sep (Ds), Jl, *Eng* (Sf); Pine I., Je (Ds); Nyack (AM); Shokan, Jl (Lg); Croton-on-Hudson (Ds); West Farms, Aug (AM); Van Cort. Pk., May (Woodr); **SI:** Richmond, Feb–Sep, often on hickory (L&D); **LI:** Aqueduct, Jl, Half Way Hollow Hills, Jl (Ds); Rockaway Beach, May (Shoe); Flatbush, *Zab* (AM); Parkville (AM); Central Pk., Ap (Eng); Rosyln, Jl (NYS); Promised Land, Yaphank, Je, *Eng* (Sf); Amagansett, Sep, *Eng* (Sf). Larva in hickory, blue beech, and alder (Fisher).

9344 **D. spreta** Gory. Buffalo (Z&R, Knull). Nicolay believes this refers to *tuberculata.*

9345 **D. tenebrosa** Kby. L. Placid, Je, Speculator, Aug (NYS); Keene Val., Aug (Diven); Axton, Oct (M&H); Big Moose, Saranac Inn, Je–Jl, *Yg* (Not); Potsdam (Knull); Cranberry L., Je–Jl (Mund); Black Br., Je (Vdyk); E. Aurora, Je (Dnd); Pike (NYS). Larva in white pine, spruce, and arbor vitae (Felt).

—— **D. distinguenda** Cast. "NY" (Frost). This species is distinct from *tenebrosa* Kby., according to Frost.

9346 **D. chrysea** Melsh. Mt. Whiteface, Jl 8 (Ds); L. George (Csy). This probably refers to *tenebrosa,* according to Nicolay.

9348 **D. dumolini** Cast. Ithaca, May 17 (Vdyk). Nicolay says, "unknown to me, may refer to *tuberculata.*"

9349 **D. tuberculata** Cast. Long L., Aug (Lint); Murray Bay, Essex Co, Aug (NYS); Keene Val., Aug, Big Moose, Jl (NYS); Syracuse, Ap (Blkm); Rochester (M&W); Buffalo (Lec, Z&R); Elmira, Je (Diven); Ithaca, May (Vdyk); Albany, Je (NYS); Peekskill (Vdyk); NYC (Csy); Bronx Pk., Van Cort. Pk. (Sf); **LI:** Brooklyn (Lec); Jamaica (Nic). Larva in hemlock (Fisher).

9349a **D. tuberculata** var. **scobina** Chev. Buffalo (Lg); West Farms (AM); **SI:** Richmond, Ap–Je (L&D). Larva in sour gum (Fisher); oak and hickory (Felt). Nicolay says this is the same as *tuberculata* Cast.

9350 **D. mutica** Lec. **LI:** Brooklyn, a single specimen reported many years ago by LeConte.

POECILONOTA Eschscholtz

9351 **P. cyanipes** Say. Mt. Whiteface, Jl (Shoe); Wilmington, Jl–Aug, *Dt* (Vdyk, Ds); Keene Val., Aug (NYS); Brant L., *Doll* (Sf); Buffalo (Lg–US); Hemlock L., Aug (Vdyk); Ithaca, Aug, *Eng* (Sf). Larva in aspen (Fisher).

9351a **P. cyanipes** var. **erecta** Gory. Buffalo (Lg). Same as *cyanipes,* according to Nicolay.

9353 **P. thureura** Say. Buffalo (Z&R); Bear Mt., Jl 4, *Schott* (Nic). Larva in willow (Fisher).

CINYRA Castelnau and Gory

9355 **C. gracilipes** Melsh. Iona I., Je, *Schott* (Frost); Bronxville, Je (Woodr); vic. NYC (AM); **SI:** Richmond, Great Kills, Old Place, on *Quercus bicolor* (L&D); **LI:** Rosedale, Jl, *Schott* (Nic); Half Way Hollow Hills, Jl (Ds). Larva in white oak, swamp oak, ironwood, and ash (Fisher).

BUPRESTIS Linnaeus

9360 **B. sulcicollis** Lec. Ithaca, May 26 (Vdyk). Larva in pine (Fisher).

9363 **B. striata** Fab. Schroon L., Je, Paradox, Jl (NYS); Gloversville, Ap, *Alex* (NYS); Syracuse, Je (Blkm); E. Aurora, Jl (Dnd); Rock City, Je (Vdyk); Ithaca, Ap–Je (Vdyk); W. Danby, Je (Vdyk); Albany, Je (NYS); Catskills, *Pears* (Sf); Minnewaska, Jl (Nic); Valhalla, Ap, *Schott* (Frost); Bear Mt., Jl (Quirs); Greenwood L., Je (Nic); **LI:** Bay Shore, *Ols* (Nic). Larva in hemlock and in both soft and hard pines (Fisher). The record by Fitch of *aurulenta* L. from NY on spruce, May–Je, probably belongs here.

9363a **B. striata** var. **impedita** Say. Cranberry L., Je, rare (Mund); Greenwood L., Je (Nic); West Farms (AM). Larva in pine, found with the preceding species (Fisher).

9365 **B. decora** Fab. **SI:** Tompkinsville, May, in introduced lumber (L&D). Larva probably lives in pine in the South (Fisher).

9366 **B. salisburyensis** Hbst. Black Br. (Lg); Bear Mt., Jl, *Schott,Quirs* (Nic). Larva in pine (Fisher).

—— **B. salisburyensis** var. Ft. Montgomery, Jl, *Schott.*

9367 **B. lineata** Fab. Syracuse (Blkm); Karner, Jl (Lg); **LI:** Flatbush, Mar (AM); Pinelawn, Aug (Sf), *Champlain* (US); Bellport, Jl–Aug (Nic); Yaphank, Jl–Sep, Bay Shore, Jl (Shoe); Long Pond, Wading R., Jl (Ds). Larva in pitch pine and scrub pine (*Pinus virginiana*) (Fisher).

9368 **B. maculipennis** Gory. Adirondacks (Csy); Black Br., Je (Lg); Wanakena, Aug (Drk); Ithaca, Je–Jl (Vdyk); Greenwood L., Jl (Nic); **LI:** Massapequa, Je (Shoe); Bellport, Jl–Aug, on pine (Nic). Larva in pitch pine and hemlock (Fisher).

9370 **B. maculativentris** Say. Peru, Je (Vdyk); Westport (Uhl–US); Mt. Whiteface, summit, Jl (Ds); Wallface Mt., Jl (Nic); Murray Bay (AM); Keene Val., Aug (Diven); Wilmington, Aug (Dt); L. Placid, Jl (NYS); Jay, Jl (Britton); L. Pleasant, Jl, Long L., Aug, Old Forge, Jl (NYS); Saranac L., Sep (Lg); Severance, Jl–Aug (AM); Wells, Newport, Jl (NYS); Cranberry L., Je–Aug (Mund); Gloversville, Aug (NYS); Syracuse (Blkm); Buffalo (Lg); Catskills (Lg); **LI** (Sf). Larva in pine (Fisher).

9372 **B. nuttalli** Kby. Cranberry L., Jl (Drk).

9372a **B. nuttalli** Kby. var. **consularis** Gory. "NY", *Dt* (Sf); Cranberry L., Aug (Mund). Larva in pitch pine (Fisher).

9374 **B. rufipes** Oliv. "NY" (Not–AM). Not rare farther south in the U. S. (Nic). Larva in chestnut, American elm, beech, sour gum, hickory, white oak, tulip tree, and sugar maple (Fisher).

9377 **B. fasciata** Fab. Wilmington, Jl (Shoe); Keene Val., Jl–Aug (NYS); Saranac Inn, Aug (Woodr); Severance, Jl, Paradox L., May, Aug (NYS); Brant L., *Doll* (Sf); Wells, Jl (NYS); Cranberry L., Jl–Aug (Knull); Wanakena, Nov (Drk); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Pike, Jl (NYS); Ithaca, Jl–Aug (Vdyk); Binghamton, Sep (Lg); L. George, Aug (AM); Gouverneur, Jl (Lint); L. Minnewaska, Jl (Ds); Nyack (AM); NYC (Knull). Larva in pine (Fisher); in maple and poplar (Felt).

XENORHIPIS LeConte

9379 **X. brendeli** Lec. Probably the rarest of our eastern buprestids (Nic). **LI:** Brooklyn (Horn). Larva in hickory (Fisher); in oak (Felt).

MELANOPHILA Eschscholtz

9384 **M. aeneola** Melsh. Common throughout the State, Jl–Aug, taken beating pine (Nic). Black Br., Je (Lg); West Pt., Je (Not); Ft. Montgomery, Jl, *Schott* (Frost); **LI:** Wyandanch, Yaphank, Jl (Ds); Bay Shore, Jl (Sf); Loyd's Neck, Jl, *Brb* (Sf). Larva in scrub pine (Fisher).

9387 **M. fulvoguttata** Harr. Very common in the northern woods on cut pine logs in Je–Jl (Nic). L. Placid, Je, Potsdam, Jl, Newport, Je (NYS); Mt. Marcy, 5344 ft., Aug (Diven); Mt. Whiteface, Jl (Shoe); Big Moose, Jl (Felt); Cranberry L., Je–Sep (Mund); Black Br. (Vdyk); Crittenden, from hemlock and spruce (B&S); Buffalo (Lg); Boston, May (Dnd); Ithaca, Je–Jl, *Dt* (Vdyk); Slide Mt., Jl (Shoe); Big Ind. Val., Jl, *Pears* (Sf); Poughkeepsie, Jl (NYS); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); Scarsdale, Ap (NYS); Ramapo (Lg); NYC, Ap, *Eng* (Sf); **LI:** Rockaway Beach, Je, *Eng* (Sf). Larva in white pine, red spruce, hemlock, and American larch (Fisher).

—— **M. drummondi** Kby. var. **abies** Champ. & Knull. Mt. Whiteface, Jl 10, *Shoe*; Wallface Mt., Jl 15, N. Elba, Jl (Nic). Rather rare and local (Nic).

9391 **M. acuminata** DeG. Old Forge, Je, Murray Bay, Jl, Newport (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, Sep, *Cy* (Vdyk); Newburgh, May (Sf); Albany, Sep (NYS); Nyack (AM); **SI** (L&D). Larva in pine and fir (Fisher).

ANTHAXIA Eschscholtz

9392 **A. viridifrons** Gory. Syracuse, Je (Drk); Rochester (M&W); Buffalo (Z&R, Lg); Batavia, Je (Kngt); Conesus L., Je (Ds); Portageville, Je (Not); Castile, *Brad* (Flet); Ithaca, May–Jl (Vdyk); West Pt., Pine I., Je (Not); Bronxville, Je (Woodr); NYC (Lg); **SI,** Je (Lg); **LI:** Massapequa, Yaphank, Jl (Woodr). Larva in American elm and hickory (Fisher).

9394 **A. aeneogaster** Cast. Apparently rare in the East, but common on the western coast (Nic). Newport, Gloversville, Aug (NYS); Rochester (M&W). Although this western species has been recorded from the East, there is some doubt of its occurrence in New York, species in this genus being easily misidentified (Fisher).

9395 **A. viridicornis** Say. A rare species (Nic). Peru, Je (Vdyk); Rochester (M&W); Ithaca, May (Vdyk); Schoharie (Not). Larva in willow, hickory, and elm (Fisher).

9396 **A. quercata** Fab. Common everywhere in Je on oak leaves (Nic). Rochester (M&W); Buffalo (Z&R); Crittenden, bred from larch (B&S); Ithaca, May, Jl–Aug (Chitt, Vdyk); Windsor, Je (Not); Schoharie (Not); Karner, Jl (NYS); Mosholu (AM); **SI:** Richmond, Je, on oak leaves (L&D); **LI:** Massepequa, Jl (Ds, Shoe); Wyandanch, Jl, Deep Pond, Wading R., Je (Ds); Yaphank, Je–Jl, *Eng* (Sf, Ds); Bayshore, Jl, *Ols* (Frost). Larva in redbud, *Crataegus coccinea,* white pine, American larch, and chestnut (Fisher).

AGRILAXIA Kerremans

9399 **A. flavimana** Gory. Bronxville, Jl (Woodr). Larva in white oak (Fisher).

CHRYSOBOTHRIS Eschscholtz

9405 **C. sexsignata** Say. Locally common throughout the State (Nic). Mt. Whiteface, Jl (Shoe); Cranberry L., Jl (Mund); Syracuse, bred from hickory (B&S); Rochester (M&W); Rochester Jct., Jl (Vdyk);

Crittenden, Je–Jl, from larch (B&S); Buffalo (Lg, Z&R); Ithaca, Je–Aug (CU); Cropseyville, Je (NYS); Big Ind. Val., Jl, *Pears* (Sf, Nic); West Pt., Je (Ds); Bronxville, Jl–Aug (Woodr); **SI:** Richmond, Jl (Ds); **LI:** Aqueduct, Jl (Shoe); Flatbush, Jl (AM). Larva in hemlock, black and white oak, red maple, white swamp oak, walnut, butternut, and American larch (Fisher); in beech and birch (Fisher).

9407 **C. scitula** Gory. Some, at least, of the following localities may not refer to *scitula*, since there are no NY specimens in the USNM (Fisher). Rochester (M&W); Hastings, Je (Lg); Buffalo (Z&R); Ithaca, Je–Jl (CU); Karner, May (NYS); Bronxville, Je (Woodr); Van Cort. Pk. (Lg); **SI,** May–Je, on dogwood (L&D); **LI:** Brooklyn, Je–Jl (Shoe); Rockaway (AM); Jamaica (Nic); Montauk Beach, Jl 2 (Frost). Nicolay says *scitula* should be cut out and the records credited to *lecontei* Lg. Larva in white swamp oak and alder (Fisher); in white birch (Felt).

9408 **C. lecontei** Lg. Batavia, Je (Kngt); E. Aurora, Jl (Dnd); Ithaca, Je (NYS); Karner, May, Nassau, Je (NYS). Larva in alder, white swamp oak, and sumac (Fisher).

9436 **C. blanchardi** Horn. Rochester (M&W); Crittenden (B&S); West Pt., Je (Not, Robn–AM); Greenwood L., Jl (Nic); NYC (Lg). Larva in pitch pine and white pine (Fisher).

9448 **C. pusilla** Cast. Common everywhere, May–Aug (Nic). Big Moose, Jl (NYS); Cranberry L., Je–Aug, not common (Mund); Black Br. (Lg); Syracuse, Jl (Drk); Ithaca, Je–Jl (Vdyk); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); **SI:** Richmond, Je (L&D); **LI:** Pinelawn, Wading R., Yaphank, Je–Jl (Ds,Sf). Larva in pitch pine and hemlock (Fisher).

9458 **C. trinervia** Kby. Mt. Whiteface trail, Jl 10, *Shoe* (Frost); Cranberry L., Je–Jl, bred from spruce, rather common (Mund); **LI** (Linell–US). Larva in pine (Fisher).

9459 **C. verdigripennis** Frost. Minerva, Jl 20, 1925, on balsam fir (*Frost*); Wallface Mt., Jl (Nic); Ft. Montgomery, Jl, *Schott* (Sf); Bear Mt., Jl, *Schott* (Nic).

9461 **C. dentipes** Germ. Common throughout the State on pine in Je (Nic). Mt. Whiteface, Jl (Shoe); Newport (NYS); Black Br., Je, *Cy* (Vdyk); Cranberry L., from larch (Mund); Broadalbin, Je (NYS); Crane Pond, Jl, *Bks* (NYS); Syracuse, Jl (Drk); Buffalo (Lg); Crittenden, from larch (B&S); Ithaca, May, Jl (Vdyk); Karner, Je–Jl (Felt); NYC (Lg); **LI:** Bellport, Je (Nic). Larva in white pine and American larch (Fisher).

9464 **C. floricola** Gory. Common wherever pine grows, May–Aug (Nic). Black Br., Je (Lg); Buffalo (Z&R); E. Aurora, Je (Dnd); Karner, Je–Jl (Lg); Ft. Montgomery, Jl, *Schott* (Sf); **LI:** Yaphank, Wading R., May, Jl, on pine (Ds); Central Pk., May (Woodr); Pennequid Barrens, Aug, *Eng* (Sf). Larva in pitch pine (Fisher).

9466 **C. femorata** Oliv. FLAT-HEADED APPLE-TREE BORER. Generally distributed and often injurious. Big Moose, Jl; Newport, Jl (NYS); Peru; Black Br.; Waddington; Cranberry L., Wanakena, Jl–Aug (Drk); Syracuse (Blkm); Ilion, Jl (NYS); Rochester, Rochester Jct.; Buffalo; Batavia, Jl (Kngt); Ashville, Jl (Cr); Castile, June, *Brad* (Flet); Egleston's Glen; Ithaca; Freeville; Elmira; Windsor, Je (Not); L. George; Albany; W. Hebron; New Baltimore; Pine I.; West Pt.; Dunderberg Mt.; Bronx Pk.; Bronxville; Riverdale; **SI:**

Richmond; Watchogue; Clove Val.; **LI:** Astoria; Aqueduct; Rockaway Beach; Hempstead; Yaphank; Half Way Hollow Hills; various collectors, dates ranging from May to Sep. Larva attacks nearly all hardwood trees and has been recorded also from coniferous trees; probably more than one species is confused under this name (Fisher).

9467 **C. lesueuri** Cast. Cranberry L., Nov (Drk); Honeoye Falls, Je (Ds); West Pt., Je (Robn); Peekskill (Lg); Ft. Montgomery, May 30 (Lg); NYC (Woodr); **SI:** Richmond (L&D); **LI:** Central Pk., Je (Not); Yaphank, Jl (Not). Nicolay regards this the same as *femorata.*

9468 **C. scabripennis** Cast. Common in the northern part of the State in pine logs (Nic). Keene Val., Aug (NYS); Mt. Whiteface, summit, Jl, *Shoe* (Ds); Mt. Marcy, summit, Je–Jl (L&D); Mt. McIntyre, Jl (Bish–NYS); Wilmington, Je, Wells, Big Moose, Pike, Jl (NYS); Vandalia, Je (Vdyk); Ithaca, May–Sep; **LI:** Jamaica, May, *Pears* (Nic). Larva in white pine and hemlock (Fisher); in spruce (Felt).

9479 **C. harrisi** Hentz. "NY" (Fitch, Lg). Larva in scrub pine and white pine (Fisher).

ACTENODES Lacordaire

9481 **A. acornis** Say. NYC (Lg); **SI:** Richmond, Je (L&D); **LI:** Rockaway Beach, Je (Shoe); Long Beach (AM); Yaphank, Je, *Eng* (Sf), Jl (Ds); Bellport, Wading R., Je (Nic); Orient Pt., Jl (Ds). Beetles often found on beach in wash-up (Nic). Larva in red maple, beech, black birch, hickory, and black oak (Fisher).

EUPRISTOCERUS Deyrolle

9485 **E. cogitans** Web. Ithaca (Chitt); W. Albany, Karner, Je (NYS); West Pt., Je (Ds); Van Cort. Pk., Je (Nic, Sf); NYC (Lg); **SI** (Nic), forms galls on alder stems (Knull, L&D); **LI:** Aqueduct, Jl (Shoe). Larva makes galls on alder, both *Alnus rugosa* and *A. incana.*

AGRILUS Stephens

9491 **A. bilineatus** Web. TWO-LINED CHESTNUT BORER. Common everywhere (Nic). Syracuse, Jl (Blkm); Rochester (M&W); Rochester Jct., Je (CU); Buffalo (Z&R); Protection, E. Aurora (Dnd); L. Keuka, May (CU); Ithaca, May–Jl, Taughannock Falls, Jl (CU); Albany, Je, Nassau (NYS); West Pt., Je, Nyack, Je (Ds); Mosholu (AM); Bronxville, Je (Woodr); **SI,** Je–Jl, on oak (L&D); **LI:** Old Westbury, Garden City (Felt); Flatbush, Je (AM); Aqueduct, Brooklyn, Je–Jl (Shoe); Rockaway Beach, May, *Eng* (Sf); Yaphank, May–Je (Ds, Sf); Half Way Hollow Hills, Deep Pond, Wading R., Je–Jl (Ds). Larva very injurious to oak, chestnut, and beech (Fisher).

9498 **A. acutipennis** Mann. Windsor, Je (Not); **LI:** Huntington, May, *Schott,* a variety (Frost); Central Pk., May (Shoe); Flatbush, Jl (AM); Yaphank, May (Lg), Je, *Eng* (Sf); Bellport, Je (Nic).

9503 **A. horni** Kerr. "NY" (Horn).

9504 **A. anxius** Gory. BRONZE BIRCH BORER. Keene Val., Aug (NYS); Mt. Whiteface, Wilmington, Jl (Ds); Axton, Je (M&H); Elk L., 2000 ft., Aug (Lint); Jay, Jl (Britton); Wells, Jl (NYS); New Russia, Aug (CU); Cranberry L., Je–Jl (Mund); Broadalbin, Je (NYS); Syracuse (Blkm); Rochester (Felt); Buffalo (Lg–US); E. Aurora (Dnd);

Geneva (Felt); Elka Pk., Aug (Drk); Elmira (Felt); Ithaca, May–Je (CU); Karner (Felt); Hudson Falls, Je (NYS); Troy (Felt); E. Jewett, Aug (Ds); Peekskill (Lg); Ft. Montgomery, Je, *Schott* (Frost); NYC (Lg); **SI:** Richmond, Je (L&D); **LI:** Bellport, Je 30 (Nic); Bayshore, Jl, *Ols* (Frost), as *torpidus* Lec. Larva in white birch, aspen, willow, and various species of birch and poplar, often very injurious to white birch (Fisher).

9508 **A. lacustris** Lec. Schoharie (Not).

9512 **A. pensus** Horn. Niagara Falls, Jl, *MCV* (Frost).

9513 **A. ruficollis** Fab. RED-NECKED CANE-BORER. Generally distributed and common. Cranberry L., Je (Mund); Speculator, Aug (NYS); Newport, Je, Wells, Jl, Gloversville, May (NYS); White L. (AM); Luzerne, May (Cr); Honeoye Falls, Je (Ds); Syracuse, Je (Blkm); Rochester (M&W); Rochester Jct., Je (Vdyk); Olcott, Jl (Dt); Buffalo (Z&R); Erie Co, Je–Aug (Dnd); Batavia, Je–Jl (Kngt); Rock City, Jl (CU); Castile, *Brad* (Flet); Painted Post, May (Cr); Ithaca, Je–Aug, Taughannock Falls, Aug (CU); Schoharie, Jl (Lint); Albany, Delmar, Karner, Je (NYS); Nassau, Je (NYS); Athens (Lint); Poughkeepsie, May–Je (NYS); West Pt., Je (Ds); White Plains, May (Frost, Sq); Mosholu, Van Cort. Pk. (AM); NYC (Lg); **SI:** Richmond, Watchogue, Je (L&D); **LI:** Brooklyn, Je (Shoe); Flatbush, Je, Astoria (AM); Jamaica, Je (NYS); Pinelawn, Aug, Wyandanch, Jl, Massapequa, Jl, Half Way Hollow Hills, Jl (Ds); Farmingdale, Je (CU); Yaphank, Je, *Eng*, Jl (Ds). Larva injurious to blackberry, raspberry, and dewberry (Fisher).

9514 **A. lateralis** Say. Rochester (M&W); Buffalo, Je (Lg); NYC (Lg); **LI:** Massapequa, Jl (Shoe); Half Way Hollow Hills, Jl (Ds); Yaphank, Je, *Eng* (Ds, Sf); Bayshore, Jl, *Ols* (Frost); Bellport, Jl (Nic). Larva in bayberry and sweet fern (Fisher).

9515 **A. masculinus** Horn. Cranberry L., Je (Mund); Rochester (M&W); Buffalo, *Horn* (Lg); Rock City, Je (Ds); Ithaca, Je (Ds); Schoharie (Not); Pine I., May (Frost); **SI:** Richmond (L&D). Larva in box elder and red maple (Fisher).

9516 **A. pusillus** Say. Rochester (M&W); vic. NYC (AM).

9517 **A. defectus** Lec. Buffalo, Je (Lg, Frost); NYC (Lg); **LI:** Pinelawn (Shoe); Massapequa, May (Shoe); Wading R., Je (Nic). Larva in white oak (Fisher).

9518 **A. crinicornis** Horn. Ft. Montgomery, Je 17, *Schott* (Frost).

9520 **A. egenus** Gory. Common throughout the State on oak in Je (Nic). Axton, Je (M&H); Wanakena, Aug (Drk); Rochester (M&W); Olcott, Je–Jl (Dt); Batavia, Je (Kngt); Ithaca, May (Chitt); Schoharie (Not); West Pt., Je (Ds), Jl, *Eng* (Sf); Nyack, Mosholu, Je (AM); Bronxville, Je (Woodr); NYC (Lg); **SI:** Richmond, Je (L&D); **LI:** Brooklyn, May–Je (Shoe); Maspeth, May, *Ols* (Frost); Wyandanch, Je, Yaphank, Jl, Half Way Hollow Hills, Jl, Deep Pond, Wading R., Je, Aug (Not, Ds). Larva in locust (Fisher); in Virginia creeper (Kirk); in hickory (Chitt).

9521 **A. puncticeps** Lec. Buffalo (Z&R). Larva in butternut (Fisher). This is possibly an error according to Nicolay, but Fisher thinks the species should occur in the State.

9522 **A. cephalicus** Lec. Ft. Montgomery, Jl 11, *Schott* (Frost).

9523 **A. arcuatus** Say. Rochester (M&W); Olcott, Je (Dt); Buffalo (Lg); Elka Pk., Aug (Drk); E. Aurora, Aug (Dnd); Ithaca, Jl (Vdyk); Schoharie (Not); West Pt., Je (Ds); Greenwood L., Jl (Nic); White Plains, Jl (Frost, Sq); Mosholu (AM); Bronxville, Je (Woodr); NYC (Lg); **SI,** Je (L&D); **LI:** Central Pk.; Wyandanch; Brookhaven, Sep, *Schott* (Frost); Half Way Hollow Hills; Wading R., Je–Jl (Ds). Larva in beech, hickory, and black oak (Fisher).

9523c **A. arcuatus** var. **coryli** Horn. Van Cort. Pk., Je (Woodr); **LI:** Wyandanch, Aug 21, *Ols* (Nic). Larva forms galls on hazel, both *Corylus americana* and *C. rostrata* (Fisher).

9529 **A. imbellis** Cr. A rare species (Nic). Van Cort. Pk., Je (Ds); **SI:** Richmond, Je (L&D); **LI:** Queens, Jl (Frost); Flatbush, May–Je (AM); Central Pk., Jl (Ds); Farmingdale, Je–Jl (CU); Wyandanch, Jl (Ds); Yaphank, Je–Jl (Sf–AM).

9531 **A. fallax** Say. A rare species (Nic). Newport (NYS); Batavia, Jl (Vdyk); Buffalo (Z&R); NYC (Lg); **SI:** Richmond, Jl, *Woodr* (L&D); **LI:** Pinelawn, Je (Lg); Half Way Hollow Hills, Jl (Ds). Larva in honey locust and hackberry (Fisher).

9536 **A. subcinctus** Gory. White Plains, May 30, *Sq* (Frost); **SI:** Richmond, Je (L&D). Probably breeds in poison ivy, as adults are always taken on this plant (Fisher).

9537 **A. putillus** Say. Olcott, Jl–Aug (Dt); Cortland Co, Je (Dnd); Hoosick, Jl 15, 1925, in sweeping (*Frost*).

9539 **A. otiosus** Say. Very common throughout the State, May–Je (Nic). Syracuse, Je–Jl (Blkm); Rochester (Z&R); Rochester Jct., Je (CU); Olcott, Je–Jl (Dt); Batavia, Je (Ds); Buffalo (M&W, Lg); E. Aurora, Je–Aug (Dnd); Ithaca, May–Aug (CU); Schoharie (Not); Albany, May–Je, Karner, Je, N. Chatham, Je, Nassau, Je, Clinton Hgts., Je, St. Ile, Je (NYS); Ft. Edward, Je (Vdyk); Tivoli, May (NYS); Ft. Montgomery, Jl (Ds); West Pt., Jl (Sf); Pine I., Je (Ds); Poughkeepsie, W. Nyack, Je (NYS); Nyack, Je (Ds); Ramapo, May (Lg); Bronxville, Je (Woodr); vic. NYC (AM); **SI:** Richmond, Watchogue, May–Jl (L&D); **LI:** Cedarhurst, Jl (Woodr); Yaphank, Je–Jl (Ds); Wading R., May (Ds), Je (Nic); Peconic, May (NYS). Larva recorded from hickory, persimmon, dogwood, redbud, black walnut, butternut, and maple, but some of these host plants may apply to other species due to erroneous identification (Fisher).

—— **A. frosti** Knull. White Plains, Je (Frost, Sq).

9540 **A. sinuatus** Oliv. SINUATE PEAR BORER. An introduced species. Confined to lower Hudson R. Val. as follows: Poughkeepsie; New Paltz; Marlboro; Newburgh; Middletown; Monsey; Port Chester; White Plains; Fishkill; Cornwall; Blauvelt; Yonkers; Ossining; Croton Falls; New Rochelle (Frost); Mt. Kisco; NYC. These records are from adults bred from pear, to which the insect is injurious, and also from quince, hawthorn, and Cotoneaster. Beetles appear in June (H. Glasgow).

9542 **A. politus** Say. Common, Je–Jl (Nic). Mt. Whiteface, 1000–4000 ft., Aug (CU); Chazy L., Je (NYS); Plattsburg, Jl (Shoe, Ds); Wilmington, Jl (Ds); Cranberry L., Jl (Drk); Newport, Je (NYS); Rochester (M&W); Rochester Jct., Je (CU); Buffalo (Z&R); Allegany Pk.,

Aug (Dnd); Cortland Co, Jl (Dnd); Windsor, Je (Not); Schoharie (Not); Elka Pk., Jl (Blkm); E. Jewett, Aug (Ds); Callicoon (AM); West Pt., Je (Ds); Ft. Montgomery, Je, *Schott* (Frost); West Pt., Je (Ds); Bronxville, Je (Woodr); Van Cort. Pk., Je (Woodr). Larva in striped maple and willow (Fisher); Felt records the species as making galls on twigs of white thorn (*Crataegus* sp.).

9547 **A. obsoletoguttatus** Gory. Occurs everywhere (Nic); Peru, Je (CU); Hague, Jl, *Leon* (NYS); Honeoye Falls, Je (Ds); Rochester Jct., Je (CU); Buffalo, Je (Z&R, Lg); Olcott, Je–Jl (Dt); E. Aurora, Je (Dnd); Ithaca (Chitt); Windsor, Je (Not); Nassau, Je (NYS); West Pt., Je, Ft. Montgomery, Jl, Nyack, Je (Ds); NYC (Lg); **SI:** Richmond, Je (L&D); **LI:** Pinelawn, Je, Half Way Hollow Hills, Jl, Yaphank, May–Jl (Ds). Larva in beech, blue beech, ironwood, red oak, hickory, and birch (Fisher).

9548 **A. vittaticollis** Rand. Ausable Chasm, Je (Vdyk); Portage, Je (Kngt); Ithaca, Jl, *Dt* (Vdyk); Windsor, Je (Not); West Pt., Je (Ds, Robn). Larva in shadbush (Fisher); in apple, pear, wild thorn, and wild crab apple (Brooks).

9551 **A. granulatus** Say. **SI**, Je (L&D). Larva in Lombardy poplar and cottonwood (Fisher).

9553 **A. lecontei** Saunders. **LI** (Horn). Larva in hackberry (Fisher).

RHAEBOSCELIS Chevrolat

9561 **R. tenuis** Lec. **SI** (Sf).

PACHYSCHELUS Solier [45]

9564 **P. purpureus** Say. Rochester (M&W); E. Aurora, Jl (Dnd); Windsor, Je (Not); Poughkeepsie, May (NYS); Ramapo, May (Ds); Mosholu (Sf); NYC (Soltau–US); **SI:** Richmond, May–Jl (L&D); **LI:** Flatbush, Sep (AM); Newtown, Aug, *Doll* (Sf). Larva mines in leaves of bush clover (*Lespedeza* sp.).

9567 **P. laevigatus** Say (*ovatus* Say). Rochester (M&W); Ithaca, Aug, *Dt* (Vdyk); Albany, Jl (NYS); Garrisons, Je (Woodr); Mosholu, Je (Lg); Bronxville, Je (Woodr); Van Cort. Pk., Jl (AM); NYC (Lg); **SI:** Richmond, Je–Aug (Ds); **LI:** Brooklyn, Aug (Shoe); Flatbush, Jl (AM); Yaphank, Je–Aug (Ds, Sf). Larva mines leaves of *Desmodium canadense*, *D. pendula*, *Meibomia canadensis*, *Lespedeza capitata*, and *L. bicolor* (Fisher).

BRACHYS Solier [46]

9572 **B. aerosus** Melsh. Common everywhere on oak (Nic). Mt. Whiteface, summit, Jl (Ds); Clayville, Je, *Leon* (NYS); Rochester (M&W); Rochester Jct., Je (Vdyk); Olcott, Je–Jl (Dt); Buffalo (Lg); E. Aurora, Je–Jl (Dnd); Portageville, Je (Vdyk); Castile, May, *Brad*

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[46] According to Fisher, the adults of this genus are found feeding on the foliage of a great variety of plants.

(Flet); Westfield, May (Not); Rock City, Jl (Vdyk); Ithaca, Je–Aug (CU); McLean Bogs, May (CU); Dryden L., Je, Slaterville to Caroline, Je (CU); Montour Falls, Je (H); Windsor, Je (Not); Schoharie (Not); Nassau, May–Je, Albany, Je, Poughkeepsie, May (NYS); West Pt., Je (Ds, Robn); Staatsburg, Je (Woodr); Stony Pt., Je (AM); Ramapo, Je (Ds); Bronxville, May–Je (Woodr); Ft. Montgomery, May (Ds); Pine I., Je (Ds); Wappingers Falls, Je, *Leon* (NYS); West Lawn, Jl, *Zab* (AM); **SI:** Richmond, Je–Aug (L&D); **LI:** Brooklyn, Je (Shoe); Massapequa, Jl (Ds); Farmingdale (CU); E. Hampton, Je (CU); Central Pk., May (Shoe); Pinelawn, Je, Half Way Hollow Hills, Jl, Nissequogue, Je, Smithtown, Je, Wading R., May, Yaphank, Jl (Ds).

9572 **B. aerosus** var. **rufescens** N. & W. Olcott, Je (Dt); Buffalo (Nic, Weiss); Catskills (Nic); **LI:** Jamaica (Fisher). Rarer than the typical species (Nic).

9573 **B. aeruginosus** Gory. Rochester (M&W); Allegany Pk., Aug (Dnd); Windsor, Je (Not); West Pt., Pine I., Je (Ds); **SI:** Richmond, Je (L&D); **LI:** Massepequa, May (Shoe); Central Pk., May (Shoe, Woodr, Sf); Pinelawn, Smithtown, Je (Ds); Yaphank, Je–Jl (Ds, Sf); E. Hampton, Je (CU); Bellport, Je–Jl (Nic).

9574 **B. ovatus** Web. Common on oak everywhere (Nic). Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Batavia, Je–Jl (Kngt); Ithaca, Je–Jl (CU); Karner, May (NYS); Pine I., Je (Ds); Bronxville, Je (Woodr); Bronx Pk., May (AM); **SI:** Richmond, May–Je (L&D); **LI:** Flatbush, May–Je (AM); Rockaway Beach, Je, *Eng* (Sf); Massapequa, Central Pk., May–Je (Ds); Farmingdale, Je (CU); Pinelawn, Wyandanch, Central Pk., Bayshore, Smithtown, Selden, Wading R., Yaphank, May–Aug (Ds); Babylon (AM); E. Hampton, Je, Riverhead, Jl (CU). As *B. tessellatus* Fab. are the following: **SI:** Richmond (L&D); **LI:** Farmingdale, Je (Vdyk); Pinelawn, Central Pk., May–Je (Shoe); Riverhead, Jl (Vdyk). Larva mines leaves of oak (Fisher).

9574 **B. ovatus** var. **bellporti** N. & W. Windsor, Je (Not); **LI:** Pinelawn, Je (Lg); Yaphank, Wyandanch, Jl (Sf); Wading R., Bellport, Je, type locality (Nic). Not nearly so common as the typical species (Nic).

TAPHROCERUS Solier

9578 **T. gracilis** Say. Common throughout the State (Nic). Newport (NYS); Gloversville, Je (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca, May–Oct (CU); Windsor, Je (Not); Poughkeepsie, Je (NYS); White Plains, Je (Frost, Sq); Suffern, May, *Love* (Sf–AM); Ramapo Mts. (AM); Bronxville, May (Woodr); **SI:** Richmond, Jl (L&D); **LI:** Rockaway Beach, May (Shoe); Yaphank, Sep (Ds). Larval host plant unknown, but adult habits indicate coarse grasses (Fisher).

MASTOGENIUS Solier

9584 **M. subcyaneus** Lec. Local and rare (Nic). Rochester (M&W); White Plains, Jl (Sq); Bronxville, Jl (Woodr); Bronx Pk. (Sf); NYC (Lg); **SI:** Richmond (L&D); **LI:** Aqueduct, Jl (Shoe); Jamaica (Frost). Larva in oak (Fisher).

FAMILY **PSEPHENIDAE**

PSEPHENUS Haldeman

9586 **P. herricki** DeKay (*lecontei* Lec.). Probably generally distributed throughout the State. Pike (NYS); Trenton Falls (Horn); Batavia, Jl (Kngt); Buffalo (Lec); Niagara Falls (Horn); Conesus L., Jl (Kngt); Oneida Co, Jl, *Clms* (Kngt); Oswego, Je–Sep (West); Ithaca and vic.; Schoharie (Not); Windsor, Je (Not); **SI,** Jl (L&D).

FAMILY **DRYOPIDAE**

(*Parnidae*)

HELICHUS Erichson

9603 **H. lithophilus** Germ. Mooers, Sep (Not); Rochester (M&W); Oneida Co, Aug (Dt,Clms); Buffalo (Z&R); Ithaca, Oct (Kngt), Nov (West–CU); Spencer L., Oct, *Lloyd* (Kngt); McLean, Oct (Kngt); Schoharie (Not); West Pt. (Robn); Greenwood L. (AM); vic. NYC (Ds).

9604 **H. fastigiatus** Say. Mooers, Sep (Not); Rochester (M&W); Oneida Co, Aug (Dt, Clms); Buffalo (Z&R); Ithaca, Jl (Kngt); Ludlow (Thompson); West Pt. (Robn); Troy (Lec); **SI** (L&D); **LI:** Babylon (AM).

9605 **H. striatus** Lec. Mooers, Sep (Not); Oneida Co, May–Sep (Dt, Clms); Batavia, Jl (Kngt); Buffalo (Z&R); Ithaca, Sep, *Kngt* (Dt); Freeville, May (Kngt).

FAMILY **HELMIDAE**

STENELMIS Dufour

9607 **S. linearis** Zimm. Mooers, Sep (Not); Schoharie (Not).

9608 **S. sinuata** Lec. Schoharie (Not).

9609 **S. crenata** Say. Mooers, Sep (Not); Saranac Inn, Aug (NYS); Oneida Co, May–Sep (Dt, Clms); Rochester (M&W); Olcott (Dt); Buffalo (Z&R); Ithaca, Je, Sep (Kngt, Dt); Freeville, May (Kngt); Schoharie (Not); Albany, Je (NYS); **SI,** May, Jl (L&D).

9610 **S. bicarinata** Lec. Mooers, Sep (Not); Ithaca, Jl (West–CU, Kngt, Dt); McLean (Dt).

9611 **S. quadrimaculata** Horn. Buffalo (Z&R); Ithaca, Jl (West), Sep (Kngt); Schoharie (Not).

9612 **S. vittipennis** Zimm. Batavia, Jl (Kngt); Oneida Co, Aug (Dt, Clms); Buffalo (Z&R); Ithaca, Ap, Jl, Oct (Kngt); **SI,** Oct, *Ds* (Kngt).

—— **S. n. sp.** Esopus, Aug, *Ds?* (Kngt).

—— **S. n. sp.** Batavia, Sep, 1915 (Kngt).

HELMIS Latreille

9615 **H. vittata** Melsh. Mooers, Sep (Not); Batavia, Spencer L., Ithaca, Esopus, Sep–Oct (Kngt).

9617 **H. bivittata** Lec. Mooers, Sep (Not); Oneida Co, Aug–Sep (Dt, Clms); Rochester (M&W); Buffalo (Z&R); Spencer L., Oct (Kngt); Ithaca, Sep–Oct (Kngt); Washington Co, Aug (West).

9618 **H. quadrinotata** Say. Mooers, Sep (Not); Oneida Co, Jl–Sep (Dt, Clms); Rochester (M&W); Buffalo (Z&R); Ithaca, May, Sep (Kngt, Dt); Michigan Hollow, Je, *Lloyd* (Kngt); Washington Co, Aug (West); NYC (AM); **SI,** Aug, Oct (L&D).

9622 **H. pusilla** Lec. In rapids of Niagara R., Je (Lec); Batavia, Sep (Kngt); **SI,** Jl (L&D).

LIMNIUS Erichson

9633 **L. elegans** Lec. Ithaca, Sep (Kngt).

9634 **L. fastidius** Lec. Johnstown, Aug (NYS).

9635 **L. ovalis** Lec. Johnstown, Mar (NYS); Oneida Co, May–Sep (Dt, Clms); Ithaca, Je–Sep (Kngt, Dt); Freeville, Je (Dt–NYS), Je, *Lloyd,* May (Kngt).

HETERELMIS Sharp

9637 **H. nitidulus** Lec. "NY" (Lg).

9638 **H. latiusculus** Lec. Schoharie (Not).

MACRONYCHUS Müller

9640 **M. glabratus** Say. Mooers, Sep (Not); Saranac Inn, Aug, *Ndm* (NYS); Oneida Co, Je–Aug (Dt, Clms); Rochester (M&W); Olcott (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Aug (West), Oct (Kngt); McLean, May–Aug (West); Peekskill (Yg); **SI,** May (L&D); **LI:** Yaphank, Sep (Ds).

ANCYRONYX Erichson

9642 **A. variegatus** Germ. Ithaca, Oct (Kngt); **SI,** Sep 30, *Shoe* (L&D); **LI:** Babylon (Csy).

FAMILY HETEROCERIDAE

HETEROCERUS Fabricius

9645 **H. ventralis** Melsh. Westfield, May, Windsor, Je (Not).

9646 **H. undatus** Melsh. Ithaca, Jl 24, *Yuasa* (Vdyk); West Pt. (Robn); **SI,** May–Je, on salt meadow Ap 1 (L&D); **LI:** Long Beach, Jl 17 (Frost); Rockaway (AM).

9646a **H. undatus** var. **cuniculus** Kies. Buffalo (Z&R).

9646c **H. undatus** var. **mollinus** Kies. Buffalo (Z&R); **LI:** Coney I., eggs (Sanborn).

9648 **H. brunneus** Melsh. Newport (NYS); Syracuse, May (H); Ithaca, May, *Bish* (NYS).

9649 **H. schwarzi** Horn. Westfield, May (Not).

9650 **H. collaris** Kies. Syracuse, May (H); Westfield, May (Not).

9651 **H. tristis** Mann. Schoharie (Not); Westfield, May (Not); Hudson Falls, Aug (Sherm–CU); vic. NYC (AM); **LI:** Yaphank, Sep (Ds).

9653 **H. auromicans** Kies. **SI** (Horn); **LI:** Rockaway (AM).

FAMILY GEORYSSIDAE

GEORYSSUS Latreille

9654 **G. pusillus** Lec. Schoharie, three specimens (Not).

FAMILY DASCILLIDAE

SUBFAMILY DASCILLINAE

EURYPOGON Motschulsky

9659 **E. niger** Melsh. Rochester (M&W); Buffalo (Z&R); Peekskill (Frost–CU); West Pt. (Robn); Ft. Montgomery, May (Ds).

ANCHYTARSUS Guérin-Ménéville

9663 **A. bicolor** Melsh. Buffalo (Z&R); **LI:** Yaphank, Jl (Sf).

SUBFAMILY EUBRIINAE

DICRANOPSELAPHUS Guérin-Ménéville

9673 **D. variegatus** Horn. Van Cort. Pk., Je (Sf).

ECTOPRIA LeConte

9674 **E. nervosa** Melsh. Newport (Yg); Mud Cr., Dryden L., Je (NYS); Schoharie (Not); Ramapo (Sf); Batavia, Je (Ds).

9674a **E. nervosa** var. **tarsalis** Lec. Buffalo (Z&R).

9674b **E. nervosa** var. **thoracica** Zieg. Rochester (M&W).

SUBFAMILY EUCINETINAE

EUCINETUS Germar

9678 **E. oviformis** Lec. Ithaca, May (Wolc,Dt).

9682 **E. terminalis** Lec. Buffalo (Z&R); Ithaca, May–Je (Wolc,Dt); **SI,** Sep 9 (L&D); **LI:** Jamaica, May, *Pears* (Sf).

FAMILY HELODIDAE

(*Cyphonidae*)

SUBFAMILY HELODINAE

HELODES Latreille

9687 **H. pulchella** Guér. Buffalo (Z&R); West Pt. (Robn); **SI** (L&D); **LI:** Yaphank (Eng,Sf).

9688 **H. fuscipennis** Guér. (*thoracicus* Melsh.). Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); **SI** (L&D).

9689 **H. thoracica** Guér. Olcott, Jl (Wolc, Dt); Geneva, Je (Cls).

MICROCARA Thomson

9690 **M. explanata** Lec. Rochester (M&W); Rochester Jct., Je, *Leon* (Flet–CU); Buffalo, Je 27, *MCV* (Frost).

CYPHON Paykull

9691 **C. robustus** Lec. **LI:** Bellport, Je, *Nic* (Sf).

9692 **C. ruficollis** Say. Newport, May–Je (Yg); Rochester (M&W); Rochester Jct., Je, *Leon* (CU); Mud Cr., Je (NYS); Pike, Je (Yg); Olcott, Je (Wolc,Dt); Buffalo (Z&R); Schloer Cr., Oneida Co, Je (Dt); Westfield, May (Not); Ithaca, May–Je (Wolc,Dt); Montour Falls, Je (H); Nassau, May 25–26 (NYS); Catskills, *Pears* (Sf); West Pt. (Robn); **LI:** Yaphank, Je, *Eng* (Sf).

9693 **C. brevicollis** Lec. Rochester (M&W).

9696 **C. obscurus** Guér. Elizabethtown, Je 8 (Yg); Axton, Je (M&H); Black Br., Je (CU); Cranberry L., Je (H); Loon L., Je (CU); Wells, Jl 12 (Yg); Newport, May–Je (Yg); Castile, *Brad* (Flet); Pike, Je; Rochester (M&W); Olcott, Je (Wolc,Dt); Buffalo (Z&R); E. Aurora, May (Flet,Dnd); Ithaca, May–Jl (Wolc,Dt); Montour Falls, Je (H); Mix Cr. Val., Cattaraugus Co, Je (CU); McLean Bogs, May (CU); Woodwardia Bog, Tompkins Co (CU); Slaterville, Je (CU); Dryden L., Je (NYS); Schoharie (Not); Nassau, May 25–26 (NYS); Dug Mt., Aug 8 (Yg); Karner, Je (NYS); **SI,** Je (L&D); **LI:** Riverhead, Ap 11 (NYS).

9697 **C. collaris** Guér. Chazy L., Je 28 (NYS); Cranberry L., Je (H); Wanakena, Aug (Drk); Cold Br., Oneida Co, Je (Dt); Rochester (M&W); Buffalo (Z&R); Newport, May–Je (Yg); Corinth, Je 22 (Yg); Ft. Edward, Je (CU); Karner, Je 6 (NYS); Poughkeepsie, May 18, 28 (Yg); West Pt. (Robn); W. Nyack, Je 14 (NYS); **SI,** May–Je (L&D); **LI:** Farmingdale, Je, *Morrow* (CU).

9698 **C. variabilis** Thunb. Cranberry L., Je, Jl (Dury, Drk, H); Oneida L., Aug (Drk); Rochester (M&W); Syracuse, flying, Ap–May (H); Olcott, Ap–Sep (Wolc, Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Hilton (CU); Geneva, May (CU); Newport, May–Je (Yg); Pike, Je 1–Sep 28 (NYS); E. Aurora, May, Jl (Flet,Dnd); Clinton Hgts., Oct 8 (NYS); McLean, Ap (Kngt); Karner, Mar, Sep 18 (Bish); N. Chatham, Je 6 (NYS); Ithaca and vic., May–Aug (Wolc,Dt,CU); McLean, May (CU); Schoharie (Not); West Pt. (Robn); **SI,** May–Nov (L&D); **LI:** Wyandanch (Sf); Rockaway Beach, May, *Eng* (Sf); Montauk, Nov (NYS).

9699 **C. padi** L. Cranberry L., Je (H); Lake Bluff, Sep 9, *Bish* (Hoffman); Rochester (M&W); Ithaca, May–Je (Wolc,Dt); Slaterville, Je (NYS); Peekskill (CU); **"LI",** May (Sf).

—— **C. n. sp.** McLean, Jl (Sf–CU,BM); **LI:** Cold Sp. Harb., *Brb* (Sf).

9702 **C. coarctatus** Payk. Ithaca, Je (Wolc,Dt).

PRIONOCYPHON Redtenbacher

9703 **P. discoideus** Say. Peru, Je (Good–CU); Rochester (M&W); Newport (Yg); Buffalo (Z&R); E. Aurora, Jl (Flet,Dnd); Ithaca, Aug (Vdyk,Wolc,Dt); Karner, Je 4 (Yg); Mosholu, Je (Sf).

9704 **P. limbatus** Lec. Cranberry L., Jl (H); Mud Cr., Je (NYS); Ithaca, May–Jl (Wolc,Dt); Ringwood, Ap 16–Je 25 (Good); Catskills, Je *Pears* (Sf); **SI**, Je, Sep (L&D).

SCIRTES Illiger

9708 **S. tibialis** Guér. Ogdensburg, Jl (NYS); Rochester (M&W); Linden, Jl (CU); Pike (NYS); Ithaca, Je–Jl (CU); Albany, Je (NYS); Warwick, Jl (NYS); Kinderhook, Jl (NYS); Ilion, May (Yg); **SI**, Jl 9 (L&D).

9709 **S. orbiculatus** Fab. Rochester (M&W); Wadsworth L., Je 13 (NYS); Sacandaga R., Je 27 (NYS); Catskills, *Pears* (Sf); Mosholu (Sf); vic. NYC (AM); **SI**, Je (L&D).

SUBFAMILY PTILODACTYLINAE

PTILODACTYLA Illiger

9716 **P. serricollis** Say. Newport, Je 1 (Yg); Rochester (M&W); Buffalo (Z&R); Ithaca, Je (Wolc,Dt); **SI**, Je (L&D); **LI**: Brooklyn, Aug (Eng); Yaphank (Sf).

FAMILY DERMESTIDAE

SUBFAMILY BYTURINAE

BYTURUS Latreille

9718 **B. unicolor** Say. AMERICAN RASPBERRY BEETLE OR FRUIT-WORM. Axton, Je (M&H); Wilmington, Wells, Jl (NYS); Cranberry L., Je–Jl, on foliage of Rubus (H); Wanakena, Aug (Dnd); Gloversville, Mar (NYS); Syracuse, May (H); Wayne Co, Jl, locally abundant (Cy); Buffalo (Z&R); E. Aurora, May (Flet,Dnd); Westfield, May (Not); Chautauqua Co, injurious (Cy); Rock City (Fbs–CU); Ithaca (Fbs–CU); Albany, Je, Nassau, May (NYS); Ulster Co, especially at Milton and Marlboro, also Kingston, injurious to raspberries; Debruce, Jl, *Eng* (Sf); Rhinebeck, *Cy* (Fbs–CU); West Pt. (Robn); Newburgh, injurious; Mosholu (Sf); **SI**, May–Jl (L&D); **LI**: Orient Pt., Je (NYS).

SUBFAMILY THYLODRIINAE

THYLODRIAS Motschulsky

9723 **T. contractus** Mots. The well-known *Ignotus aenigmaticus* Slosson. NYC (Ds); **SI** (L&D); **LI**: Brooklyn (BM).

SUBFAMILY DERMESTINAE

DERMESTES Linnaeus

9725 **D. caninus** Germ. Gloversville, May (NYS); Buffalo, Je (Dnd); Karner, Je (NYS); Nyack (AM); Ithaca (Fbs–CU); West Pt. (Robn); Peekskill, in vacated bird's nest (Sherm); vic. NYC (AM); **SI**, May–Je, on dead animals (L&D); **LI**: Bergen Beach, Dec 1, in rotten log (Dow); Orient Pt., Jl, *Lath* (NYS); Wading R., Amagansett, Greenport, Center I., May–Aug (Sf).

9725c **D. caninus** var. **nubipennis** Csy. Buffalo (Z&R), as *nubilus*; E. Jewett (Ds); Ft. Montgomery (Ds); **LI:** Wading R., Central Pk., Orient (Ds).

9730 **D. talpinus** Mann. Chafee, May, on dead hawk (Dnd).

9731 **D. carnivorus** Fab. "NY" (Lec), as *mucoreus*.

9732 **D. vulpinus** Fab. Buffalo (Z&R, Lec); Pike, May (NYS); Gowanda, May (Dnd); Ithaca (Fbs–CU); Albany, Jan–May (NYS); West Pt. (Robn); **SI,** Aug (L&D); **LI:** Rockaway (AM); Brooklyn (Sf).

9734 **D. frischi** Kug. Gloversville, May (NYS); **SI,** Jl–Sep, often under dead fish, etc., on seashore (L&D); **LI:** Sea Cliff (Fbs–CU); Center I., Rockaway Beach, Promised Land, Orient (Ds); Amagansett, Aug (Sf).

9735 **D. nidum** Arrow. Buffalo (Z&R), as *elongatus*.

9737 **D. lardarius** L. LARDER BEETLE. Throughout the State, injurious to stored meats, skins, etc., and a well-known pest in insect collections. Axton, Je (M&H); Little Falls; Erie Co (Dnd); Watertown (Lint–NYS); Geneva (Cls); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca (Fbs–CU); Windsor, Je (Not); Utica; Cortland Co; Chenango Co; Delaware Co; Dutchess Co; **SI,** all seasons, mostly on stored provisions; **LI,** several localities (Sf).

9739 **D. pulcher** Lec. Buffalo (Z&R); Ithaca (Fbs–CU); Poughkeepsie, Jl (NYS).

ATTAGENUS Latreille

9741 **A. pellio** L. "NY" (Lg Cat.); Buffalo (Z&R).

9742 **A. piceus** Oliv. BLACK CARPET BEETLE. Elizabethtown, Je (NYS); Gloversville, Sep (NYS); Oswego Falls, Aug, *Bks* (NYS); Louisville (Lint); Buffalo (Z&R); E. Aurora, May (Dnd); Ithaca (CU); Cincinnatus, Jl (Flet,Dnd); Albany, Ap (NYS); Schenectady (Lint); Coeymans (Lint); Poughkeepsie (Lint); West Pt. (Robn); NYC (Ds); Roseville (Ds); **SI,** in houses at all seasons, adults often common in spring (L&D); **LI:** Brooklyn, Flushing, *Eng* (Sf); Flatbush, *Zab* (AM).

9745 **A. deficiens** Csy. Windsor, Je (Not).

9749 **A. elongatulus** Csy. West Pt. (Robn); vic. NYC (AM).

TROGODERMA Latreille

9770 **T. ornata** Say. Newport, Je (NYS); Honeoye Falls, *Leon* (Fbs–CU); Buffalo (Z&R); Albany, Sep (NYS); vic. NYC (AM); West Pt. (Robn); **SI,** May–Jl (L&D).

9772 **T. procera** Csy. **LI** (Csy).

9774 **T. tarsalis** Melsh. Albany, May (NYS); West Pt. (Robn); Nyack, *Zab* (AM); **SI,** Je, in stored nuts, Jl (L&D); **LI:** Flatbush, *Zab* (AM).

9785 **T. versicolor** Creutz. Ithaca (Fbs–CU), as *inclusa* Lec.; Albany, Ap–May, Aug (NYS); West Pt. (Robn); vic. NYC (AM).

CRYPTORHOPHALUM Guérin-Méneville

9816 **C. ruficorne** Lec. **SI,** May 31, on strawberry blossoms at Watchogue (L&D).

9824 **C. triste** Lec. Peekskill, May (Sherm), on dandelion; West Pt. (Robn).

9825 **C. picicorne** Lec. **SI,** Sep 21 (L&D); **LI:** Flatbush, Manor, Yaphank, May–Sep, *Eng* (Sf).

ANTHRENUS Fabricius

9829 **A. scrophulariae** L. CARPET BEETLE or BUFFALO MOTH. Denmark, May (NYS); Gloversville; Oswego, Je (NYS); Syracuse; Rochester; Buffalo; Castile, *Brad* (Flet); E. Aurora, May–Je (Dnd); Lakewood; Hornell; Montour Falls, May–Je (H); Spencer L. (Fbs–CU); Caroline to Harford (Fbs–CU); Ithaca; Schoharie; Utica; Albany; Coeymans; Nyack (AM); Poughkeepsie; Suffern (AM); West Pt. (Robn); **SI,** out of doors on flowers, often on Pyrus in May; **LI:** Flatbush (AM); Yaphank, Sep (Eng).

9829a **A. scrophulariae** var. **flavipes** Lec. "NY" (Lec).

9830 **A. thoracicus** Melsh. Buffalo (Z&R).

9832 **A. lepidus** Lec. Buffalo (Z&R). Described from Calif., and possibly misdetermined or introduced.

9835 **A. verbasci** L. Cranberry L., Je–Jl, on blossoms of Sambucus and yarrow; Syracuse, Montour Falls, in house and on flowers (H); Buffalo (Z&R); E. Aurora, Je (Dnd); Ithaca, Mar–May (div.); Albany (Lint); West Pt. (Robn); Suffern (AM); **SI,** Mar–May (L&D); **LI:** Flatbush (AM).

9837 **A. museorum** L. Schoharie (Not); White L., Je, *Zab,* L. George, *Zab* (AM); Albany (Felt); **SI,** Jl (L&D); **LI:** Flatbush, Jl (Eng).

9838 **A. castaneae** Melsh. Speculator, Je, Aug, Wells, Jl (NYS); Cranberry L., Oct (Drk); Ithaca (CU); Schoharie (Not); Albany, Je (NYS); Poughkeepsie, Je (NYS).

9839 **A. caseyi** Dalla Torre (*rotundulus* Csy.). "NY" (Csy).

ORPHILUS Erichson

9843 **O. subnitidus** Lec. Buffalo (Z&R). Described from Calif., also from Col., possibly misdetermination for *ater.*

9844 **O. ater** Er. Buffalo (Z&R); Ithaca (Fbs–CU).

9846 **O. niger** Rossi. West Pt. (Robn); **SI,** May (L&D). According to Casey, this and *ater* are identical.

FAMILY BYRRHIDAE

SUBFAMILY NOSODENDRINAE

NOSODENDRON Latreille

9847 **N. unicolor** Say. **LI:** Long Beach, Je, *Schott* (Sf); Flatbush, Ap, *Eng* (Sf).

SUBFAMILY BYRRHINAE

CYTILUS Erichson

9864 **C. alternatus** Say. "Northern NY" (Lec, in Proc. Acad. Nat. Sci. Phila., vol. 7, p. 115, 1856, as *varius* of Europe); Axton, Je (M&H); Newport, May (NYS); Potsdam (NYS); Saranac Inn, May (NYS); Rochester (M&W); Buffalo (Z&R); Pike (NYS); Castile, Ap, *Brad* (Flet); Batavia, Je (Kngt); E. Aurora, May–Je (Dnd); Westfield, May Windsor, Je (Not); Cinnamon L. (NYS); Rock City (Ds); Tarbel, Je (Ds); Ringwood, Jl, *Leon* (NYS); Ithaca Ap (Bish–NYS); Al-

bany, Karner, Nassau, May–Je (NYS); Rensselaer, May (NYS); West Pt., Ap, *Robn* (Ds); **SI**, Je, on ground among grass roots (L&D); **LI**: Long Beach, May, *Eng* (Sf).

BYRRHUS Linnaeus

9866 **B. pettiti** Horn. Cranberry L., Jl 21, *Blkm* (H); Buffalo (Z&R).

9867 **B. cyclophorus** Kby. Catskills, *Pears* (Sf); Buffalo (Z&R).

9869 **B. americanus** Lec. Keene Val., Jl (NYS); Newport (NYS); Woodworth's L., Jl (NYS); Wanakena, Aug (Drk); Rochester (M&W); "Niagara" (Lec); E. Aurora, Jl–Aug (Dnd); Aurora, Ap (Bish–NYS); Ithaca, Jl (Vdyk); Canaan, Je (NYS); Big Ind. Val., Je, *Pears* (Sf); West Pt. (Robn); vic. NYC (AM).

9873 **B. geminatus** Lec. Buffalo (Lec).

9889 **B. kirbyi** Lec. Albany, Je (NYS); Buffalo (Z&R).

PORCINOLUS Mulsant

9893 **P. undatus** Melsh. "NY" (J. Hamilton); Buffalo (Z&R), as *murinus*.

SYNCALYPTA Stephens

9895 **S. spinosa** Rossi. Rochester, *Moore* (Sf); Batavia, Je (Lg); McLean, May (Flet); Genesee Co, Je, *Ds* (Sf); Windsor, Je (Not).

SUBFAMILY LIMNICHINAE

LIMNICHITES Casey

9905 **L. punctatus** Lec. McLean, May, Je (Flet); Mooers, Sep (Not); Schoharie (Not).

EULIMNICHUS Casey

9913 **E. obscurus** Lec. NY (Lec).

FAMILY RHYSODIDAE

RHYSODES Dalman

9944 **R. americanus** Lap. Buffalo, as *exaratus* (Z&R); McLean Bogs, Nov (Vdyk).

CLINIDIUM Kirby

9946 **C. sculptile** Newn. North Branch (Schaupp).

FAMILY OSTOMIDAE

(*Trogositidae*)

CORTICOTOMUS Sharp

9954 **C. parallelus** Melsh. West Pt. (Robn); Mosholu (Sf); **SI** (L&D); **LI**: Jamaica (Pears); Rockaway Beach, May (Eng).

9957 **C. cylindricus** Lec. Buffalo (Z&R).

AIRORA Reitter

9966 **A. cylindrica** Serv. Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jan 2 (Dt–CU).

TEMNOCHILA Westwood

9976 **T. virescens** Fab. Karner (Felt); **SI** (L&D); **LI:** Bellport, Wading R. (Nic); Rockaway Beach, Je, Yaphank, Sep (Ds).

TENEBROIDES Piller and Mitterpacher

9977 **T. mauritanicus** L. THE CADELLE. Throughout the State, infesting stored grains, cereals, etc.

9984 **T. bimaculatus** Melsh. Buffalo (Z&R); Bronx Pk. (Sf); **SI,** Je (L&D).

9989 **T. collaris** Sturm. **SI** (L&D).

9990 **T. americanus** Kby. Syracuse, in dying hickory (B&S); Buffalo (Zimm); Schuylerville, Oct (NYS); **SI** (L&D).

9991 **T. laticollis** Horn. Buffalo (Zimm); West Pt. (Robn); **LI,** Ap (Eng); Half Way Hollow Hills, Jl (Ds).

9994 **T. corticalis** Melsh. Rochester (M&W); Buffalo (Z&R); Syracuse, in dying hickory (B&S), and Ap, under bark (H); Peekskill (Sherm); **SI,** Ap–Jl, Nov (L&D); **LI:** Yaphank, Jl (Eng); Bellmore, E. Hampton, Sep (Eng); Half Way Hollow Hills, Jl (Ds); Orient, *Lath* (NYS).

CALITYS Thomson

9998 **C. scabra** Thunb. Rochester (Moore); Buffalo (Z&R).

OSTOMA Laicharting

10003 **O. ferruginea** L. Keene Val., Sep (Eng); Cranberry L., Je–Jl, under bark of dead tree (H).

10005 **O. pippingskoeldi** Mann. Cranberry L., Jl (H), but Schaeffer queries this determination since the species occurs in Alaska and Calif.

10007 **O. quadrilineata** Melsh. Buffalo (Z&R); E. Aurora, Chafee, May (Dnd); Mosholu (Sf); Catskills (Pears).

THYMALUS Latreille

10010 **T. marginicollis** Chev. Cranberry L., Jl 7, under bark (H); Rochester (M&W); Buffalo (Z&R); Oakdale, Je (AM); Cortland Co, Je (Dnd); West Pt. (Robn); Bronx Pk. (Sf); **SI,** May–Je (L&D); **LI:** Wyandanch (Sf, Eng). Often found on the fungus *Polyporus betulinus* on white birch.

FAMILY NITIDULIDAE

SUBFAMILY CATERETINAE

BRACHYPTEROLUS Grouvelle

—— **B. pulicarius** L. (*Heterostomus*). Cranberry L., Je, in sweeping (H); Syracuse, May, in numbers on dandelion flowers (H); present in Niagara, Saratoga, and Schoharie Counties, and in parts of Albany

Co, also injuring strawberries in southern Columbia Co (Felt, Ins. Pest Survey, Bul. 2, p. 89); Dutchess Co, generally distributed in strawberry beds (Hervey); feeding on apples in Greene Co, May, *Mills* (Flet). Possibly these records all refer to *mordelloides* (Leng).

—— **B. mordelloides** Not. Keene Val., Je (Not).

CATERETES Herbst

10012 **C. pennatus** Murr. Buffalo (Z&R); Ithaca, Ap–May (CU); Normanskill, May, on willow blossoms (NYS); Ft. Montgomery, May, *Schott* (Sf).

CERCOMETES Reitter

10016 **C. abdominalis** Er. Wells, Newport, May (NYS); Rochester (M&W); Buffalo (M&W); Allegany Pk., Jl (Dnd); Corinth, May (NYS); Durlandville, Je (Dt); Karner, Jl (NYS); West Pt. (Robn); Mosholu (Sf); **SI**, May–Je, on elder blossoms (L&D).

BRACHYPTERUS Kugelann

10017 **B. urticae** Fab. Newport, May (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca and Ellis to Slaterville, May–Aug (CU); Schoharie (Not); Burnt Hills (NYS); West Pt. (Robn); **SI** (L&D); **LI:** Cold Sp. Harb., Jl (Sf).

AMARTUS LeConte

10022 **A. rufipes** Lec. Buffalo (Z&R); **LI:** Astoria (AM).

SUBFAMILY MELIGETHINAE

MELIGETHES Stephens

10025 **M. mutatus** Harold. Westfield, May (Not); Catskills (Sf); West Pt. (Robn), as *brassicae*.

SUBFAMILY CARPOPHILINAE

COLOPTERUS Erichson

10029 **C. maculatus** Er. Catskills, *Pears* (Sf); Bronx (Joutel).

10030 **C. semitectus** Say. Newport, Wells, May (NYS); Olcott, Je (Dt); Rock City, Je (CU); Poughkeepsie, Je (NYS); **SI**, Ap 24 (L&D); **LI:** Woodside, May, Aug (Sf).

10031 **C. unicolor** Say. Buffalo (Z&R).

10032 **C. truncatus** Rand. Big Moose, Aug (NYS); Cranberry L., Je–Jl, on birch (H); Rochester (M&W); Olcott, May–Je (Dt); Boston, Ap (Dnd); Rock City, Je (CU); Karner, Aug (NYS); West Pt. (Robn); **SI**, Mar, on cedar, Ap–May (NYS); **LI:** Central Pk., *Eng* (Sf).

CONOTELUS Erichson

10035 **C. obscurus** Er. Wells, Pike, Jl (NYS); Rochester (M&W); Buffalo (Z&R); E. Aurora, Jl (Dnd); Portage, Jl (NYS); Ithaca, May 16, *Good* (H); Scotia, Jl (NYS); West Pt. (Robn); Mosholu, Bronx Pk. (Sf); **SI** (L&D).

CARPOPHILUS Stephens

10040 **C. floralis** Er. **SI,** Je 14, on flower of prickly pear (L&D).

10042 **C. hemipterus** L. Rochester (M&W); Olcott, Je–Jl (Dt); E. Aurora, Mar (Dnd); Albany, Sep (NYS); NYC, in Turkish figs (Ds); **SI,** from dried figs (L&D); **LI:** Lawrence, Jl (NYS).

10043 **C. dimidiatus** Fab. Newport, May (NYS); Poughkeepsie, Jl (NYS).

10052 **C. niger** Say. Elizabethtown, Aug, Newport, Je (NYS); Cranberry L., Je–Jl (H); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Rock City, Je (CU); Ithaca, Ap (NYS); Poughkeepsie (NYS); West Pt. (Robn); **SI,** May–Jl (L&D); **LI:** Cold Sp. Harb., Ap, *Schott* (Sf).

10056 **C. marginatus** Er. Poughkeepsie, Je (NYS); **LI:** Jamaica (Nic).

10057 **C. corticinus** Er. Olcott, May (Dt); Ringwood, May (Dt); **SI,** May, Aug (L&D); **LI:** Jamaica, *Pears* (Sf); Bellmore, May, *Eng* (Sf).

10058 **C. brachypterus** Say. Chazy L., L. Clear, Je (NYS); Newport, Pike, May (NYS); Buffalo (Z&R); Westfield, May (Not); Ithaca, May (CU); Albany (NYS); West Pt. (Robn); Mosholu (Sf); **SI,** Ap–May (L&D); **LI:** Central Pk., Ap, *Eng* (Sf); Yaphank, May, *Eng* (Sf).

10060 **C. antiquus** Melsh. **SI,** Je (L&D).

SUBFAMILY NITIDULINAE

NITIDULA Fabricius

10065 **N. bipunctata** L. Axton, Je (M&H); Newport, Denmark, Pike, May (NYS); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Kngt); Nassau, May (NYS); West Pt. (Robn); **SI,** Je 23, in peaches not grown on SI (L&D).

10067 **N. rufipes** L. Axton, Je (M&H); Newport, May–Je (NYS); Cranberry L., Jl., on carrion (H); Rochester (M&W); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je (Dnd); Batavia, Je (Kngt); Montour Falls, Ap, carrion (H); Westfield, May (Not); Ithaca, Ap–May (CU); Karner, Poughkeepsie, Je (NYS); Peekskill (CU); West Pt. (Robn); **SI,** Ap–May, Sep (L&D); **LI:** Riverhead, Ap (NYS); Orient, May (NYS).

10068 **N. ziczac** Say. Rochester (M&W); Olcott, Je, Sep (Dt); **LI:** Amagansett, Aug, *Eng* (Sf).

—— **N. carnaria** Schall. "NY" (Sf) (not in Lg Cat.); West Pt. (Robn).

OMOSITA Erichson

10069 **O. colon** L. Axton, Je (M&H); Cranberry L., Je–Jl, in carrion and in decaying fungi (H); Newport, Ilion, Oswego (NYS); Syracuse, Ap–May (H); Rochester (M&W); Buffalo (Z&R); Erie Co (Dnd);

Batavia, Je (Kngt); Pike (NYS); Westfield, May (Not); Ithaca, Ap–Sep (CU); McLean Bogs, Aug (Dt); Schoharie (Not); Clinton Hgts., Ap (NYS); Albany, Karner, Ap, Poughkeepsie, Je (NYS); West Pt. (Robn); Bangall, White Plains, *Eng* (Sf); NYC (NYS); **SI**, Mar–Sep, often on dead animals (L&D); **LI**: Jamaica, Rockaway Beach, North Beach, Long Beach, Forest Pk., Yaphank, Greenport, Mar–Aug (Sf); Orient, Mar, on rotten cabbage (Ds).

EPUREA Erichson

10073 **E. helvola** Er. Gloversville, May (Alex–NYS); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Eden, Erie Co, Aug (Dnd); Ithaca (CU); Greenwood L., Je (Sf); **SI**, Aug–Sep (L&D); **LI**: Rockaway Beach, May (Sf); Yaphank, Oct, *Eng* (Sf).

10074 **E. rufa** Say. Buffalo (Z&R); West Pt. (Robn); **SI**, Mar, May, Dec, Ap 4, in sifting leaves in garden (L&D); **LI**: Jamaica, Rockaway Beach (Sf).

10077 **E. erichsoni** Reit. Cranberry L., Je, on maple blossoms (H); Olcott, Je (Dt); Rock City, Je (CU); Ithaca, May–Jl (Dt); West Pt., May, *Robn* (Sf); Little Pond, Orange Co, May, *Bish* (NYS); **LI**: Central Pk., Ap (Eng).

10078 **E. rufida** Melsh. Buffalo (Z&R); **SI**, Feb, Je (L&D).

10080 **E. corticina** Er. Wells (NYS); Rochester (M&W); Buffalo (Z&R); West Pt. (Robn).

10083 **E. avara** Rand. Axton, Je (M&H); Cranberry L., Je, on *Betula lutea* (H); Olcott, Je (Dt); Boston, Ap (Dnd).

10087 **E. truncatella** Mann. Cranberry L., Je–Jl, on maple and pine (H); Axton, Fourth L., Je, Albany, Ap (NYS); West Pt., Mar, *Robn* (Sf); **LI**: Queens, Ap (Sf).

10089 **E. ovata** Horn. Cranberry L., Jl–Aug (H); Olcott, Je–Jl, Dec–Jan (Dt); Mosholu, Sep (Sf).

10091 **E. peltoides** Horn. Olcott, Aug–Sep (Dt); Windsor, Je (Not); West Pt. (Robn).

10092 **E. depressa** Ill. Cayuga L., Je (CU); Ithaca, May (Dt).

10093 **E. labilis** Er. Axton, Je (M&H); Cranberry L., Je–Jl (H); Rochester (M&W); Olcott, Je–Jl (Dt); Westfield, May (Not); Windsor, Je (Not); **SI**, May (L&D).

—— **E. ornatula** Not. NY, type locality.

STELIDOTA Erichson

10098 **S. geminata** Say. Denmark, Sep (NYS); Rochester (M&W); Olcott, Je–Oct (Dt); Buffalo (Z&R); Ithaca, Aug–Sep (Dt); Menands, Sep, Middleburg, May (NYS); West Pt. (Robn); Nyack, Je (Ds); **SI**, Aug, on decaying pears (L&D); **LI**: North Beach, Rockaway Beach, Long Beach, Jamaica, May, *Shoe, Schott, Pears* (Sf).

10099 **S. octomaculata** Say. Johnstown (Alex–NYS); Wolcott, May, *Cy* (NYS); Ithaca, Sep (CU); Karner, Mar, *Bish* (Dt); West Pt. (Robn); **SI**, Je, trapped in molasses jar (L&D).

PROMETOPIA Erichson

10101 **P. sexmaculata** Say. Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt); West Pt. (Robn); Nyack, Je, Ramapo, May (Ds); **SI,** Ap–Oct, under bark of dead beech (L&D); **LI:** Jamaica, Woodside, Rockaway Beach, May–Je, *Eng* (Sf); Long Beach (AM).

LOBIOPA Erichson

10105 **L. undulata** Say. Rochester (M&W); Olcott, Aug–Sep, Ithaca, Jl (Dt); E. Aurora, May (Dnd); Windsor, Je (Not); West Pt. (Robn); **SI,** Je–Jl (L&D); **LI:** Flatbush, Jamaica, Aug (Sf); Greenport, *Eng* (Sf).

SORONIA Erichson

10106 **S. guttulata** Lec. Albany, Ap, *Yg* (NYS).

PHENOLIA Erichson

10109 **P. grossa** Fab. Newport, Je (NYS); Cranberry L., Jl (H); Dexter, Jl (NYS); Olcott, Je, Aug (Dt); Buffalo (Z&R); Ithaca, Jl–Sep (CU); McLean, May (CU); Rensselaer, Aug (NYS); West Pt. (Robn); White Plains, Mar, *Eng* (Sf); **SI,** Ap–Je (L&D); **LI:** Central Pk., Ap, *Eng* (Sf).

AMPHOTIS Erichson

10110 **A. ulkei** Lec. Ithaca, Ap (Dt); **LI:** Barton Hollow, in sifting, Aug (Flet–CU).

AMPHICROSSUS Erichson

10113 **A. ciliatus** Oliv. Ithaca, Je, Sep (CU); White Plains, Mar, *Eng* (Sf); **SI,** May (L&D); **LI:** Brooklyn, May (Dt); Jamaica, *Pears, Eng* (Sf).

CYCHRAMUS Kugelann

10115 **C. adustus** Er. Newport, *Yg* (NYS); Ithaca, Je, Sep (CU); Windsor, Je (Not); West Pt., *Robn* (Sf); **LI:** Yaphank, Ap (Sf).

POCADIUS Erichson

10117 **P. helvolus** Er. West Pt. (Robn); Mosholu (Sf); **SI** (L&D).

CYLLODES Erichson

10121 **C. biplagiatus** Lec. Buffalo (Z&R); Ithaca, Je (Dt); Windsor, Je (Not); West Pt., *Robn* (Sf). Occurs on a fungus on poplar.

OXYCNEMUS Erichson

10122 **O. histrina** Lec. E. Aurora, Nov (Dnd); West Pt. (Robn); **SI,** Aug (L&D); **LI:** Valley Stream, Yaphank, Jl (Sf); Melville, Oct, *Schott,* Riverhead, Aug, on *Phallus impudicus* (Ds).

10123 **O. nigripennis** Lec. **LI:** Yaphank, Jl (Sf).

PALLODES Erichson

10125 **P. silaceus** Er. Mosholu, Bronx Pk. (AM); **SI,** Je–Nov, often in fungi (L&D); **LI:** Cold Sp. Harb., Amagansett, Orient, Aug, Oct (Sf).

SUBFAMILY CRYPTARCHINAE

CRYPTARCHA Shuckard

10129 **C. ampla** Er. Newport, Je, Plattsburg, Sep (NYS); Syracuse, May (H); Rochester (M&W); Olcott, Ap–Sep (Dt); Buffalo (Z&R); E. Aurora, May (Dnd); Batavia, Je–Sep (Kngt); Westfield, Jl (NYS); Windsor, Je (Not); Ithaca, May–Aug (NYS); West Pt. (Robn); **SI,** Ap–Jl, on sap (L&D); **LI:** Brooklyn, May (Dt); Jamaica, Flatbush, May (Sf); Yaphank, *Eng* (Sf).

10131 **C. strigata** Fab. Buffalo (Z&R); Peekskill, Sep (Sherm); West Pt. (Robn); **LI:** Yaphank, May, *Eng* (Sf).

10132 **C. concinna** Melsh. E. Aurora, May (Dnd); Boston, Ap, *Dnd* (Dt); Karner, Aug (NYS); **SI,** May–Je (L&D); **LI:** Jamaica, *Pears,* Yaphank, May, *Eng* (Sf).

GLISCHROCHILUS Reitter

(*Ips* Fabricius)

10136 **G. obtusus** Say. **SI,** Aug 25, under bark of dying red maple (L&D).

10137 **G. fasciatus** Oliv. Cranberry L., Je–Jl, at sap on birch stump (H); Axton, Je (M&H); Big Moose, Jl, Newport, Wells, May–Jl (NYS); Gloversville, Je (NYS); Syracuse, May–Je (H); Olcott, Ap–Oct (Dt); Buffalo (Z&R); Erie Co, May–Sep (Dnd); Geneva, Avon, Ap, Je (Cls); Batavia, Je–Aug (Kngt); Castile, Sep, *Brad* (Flet); Binghamton, Ap (NYS); Ithaca, Ap–Sep (Dt); Interlaken, Ap (NYS); Montour Falls, May–Je (H); Windsor, Je (Not); Schenectady, Dec (Dt); Albany, Menands, Poughkeepsie, Jl (NYS); West Pt. (Robn); **SI,** Ap–Aug (L&D); **LI:** Flatbush, Lawrence (NYS); Rockaway Beach, Central Pk., Greenport, Ap–Aug, *Eng* (Sf).

10138 **G. sanguinolentus** Oliv. Newport, May, Saranac Inn, Jl (NYS); Cranberry L., Je–Jl, at birch sap and from *Pinus strobus* (H); Fourth L., Je (NYS); Olcott, Sep (Dt); Geneva, Ap (Cls); Buffalo (Z&R); E. Aurora, May–Je, Allegany Pk., Aug (Dnd); Batavia, Jl–Aug (Kngt); Schuyler, May (OS–NYS); Ithaca, May–Jl (Dt); Catskills, *Pears* (Sf); West Pt. (Robn); **SI,** Ap–Sep (L&D); **LI:** Jamaica, Central Pk., Ap, *Eng* (Sf).

10139 **G. confluentus** Say. Buffalo (Z&R); Boston, Ap (Dnd); West Pt., Mar, *Robn* (Ds); **LI:** Jamaica (Schott); Queens, Mar–Ap, *Eng* (Sf).

10140 **G. vittatus** Say. Newport, Ap (NYS).

FAMILY RHIZOPHAGIDAE

RHIZOPHAGUS Herbst

10144 **R. bipunctatus** Say. Cranberry L., Jl 2 (H); West Pt. (Robn); **SI** (L&D).

10147a **R. parallelicollis** Gyll. var. **robustus** Sf. **LI:** Woodside, Ap (Sf).

10149 **R. sculpturatus** Mann. Big Moose, Jl (NYS); Cranberry L., May–Jl (H); Rochester (M&W); Buffalo (Z&R); **SI,** Ap 24, *Woodr* (L&D).

10150 **R. dimidiatus** Mann. Newport (Yg–NYS); Cranberry L., Je–Jl (H, Dury).

10151 **R. approximatus** Lec. Buffalo (Lec).

10152 **R. remotus** Lec. Cranberry L., Jl (H), Jl (Dury); West Pt., Ap, *Robn* (Sf); **LI:** Queens, Hempstead, Bellmore, Ap–May (Sf).

10155 **R. brunneus** Horn. Fulton Chain, Je (NYS).

10157 **R. cylindricus** Lec. **LI:** Central Pk., Ap, *Eng* (Sf); Wyandanch (Sf).

FAMILY **MONOTOMIDAE**

SUBFAMILY **MONOTOMINAE**

MONOTOMA Herbst

10158 **M. producta** Lec. Vic. NYC (AM); **SI,** Je, along shore or under bark of old logs; **LI:** Flatbush, Ap (Eng); Rockaway Beach, Je (Eng).

10159 **M. picipes** Hbst. Wells, Je (NYS); Syracuse, May, on herbage (H); Rochester (M&W); West Pt. (Robn); vic. NYC (AM); **SI** (L&D).

10163 **M. fulvipes** Melsh. **SI,** May (L&D).

10165 **M. americana** Aubé. Cranberry L., Je 28 (H), in decaying fungi.

10167 **M. parallela** Lec. NY (Lec).

10171 **M. longicollis** Gyll. Cranberry L., Je 25 (H), in decaying fungi.

EUROPS Wollaston

10179 **E. pallipennis** Lec. Mosholu (Sf); vic. NYC (AM).

BACTRIDIUM LeConte

10183 **B. ephippigerum** Guér. Newport (NYS); Westfield, May (Not); **SI,** Ap (L&D); **LI:** Hempstead Plains, May (Eng).

10184 **B. erythropterum** Melsh. Buffalo (Z&R).

10185 **B. convexulum** Csy. (? *striolatum* Reit.). Newport (NYS); Olcott, May (Dt); Buffalo (Z&R), as *striatum*; West Pt. (Robn); **SI,** May, under bark of beech (L&D).

10186 **B. hudsoni** Csy. NY (Csy).

PYCNOTOMINA Casey

10190 **P. cavicolle** Horn. Newport (NYS); Ringwood, Je (Dt); West Pt. (Robn); Bronx Pk. (Sf); **SI,** Aug (Shoe); **LI:** Jamaica, *Pears* (Sf).

FAMILY **CUCUJIDAE**

ORYZAEPHILUS Ganglbauer

10194 **O. surinamensis** L. SAW-TOOTHED GRAIN BEETLE. Newfane (Dt–CU); Castile, *Brad* (Flet); Ludlowville, Nov (CU); Ithaca, Sep (Dt); West Pt. (Robn); **SI,** in dried fruits at all seasons (L&D); **LI:** Flushing, Queens, *Eng* (Sf). Probably rather generally distributed in the State, infesting grains and dried fruits.

SILVANUS Latreille

10198 **S. bidentatus** Fab. Newport (NYS); Johnstown, Oct (NYS); Cranberry L., Je 23 (H); Olcott, May–Oct (Dt); West Pt. (Robn); **SI,** Ap, Je, Aug (L&D); **LI:** Central Pk., Ap, *Eng* (Sf).

10199 **S. planatus** Germ. Cranberry L., Je 23 (H); Olcott, Ap, Jl (Dt); Buffalo (Z&R); Ithaca, Sep (Dt); Windsor, Je (Not); Van Cort. Pk., *Nic* (Sf); **SI,** May, under bark (L&D).

10200 **S. imbellis** Lec. Cranberry L., Je–Jl (H); Olcott, May, Oct (Dt); Buffalo, *Peabody* (Fris); E. Aurora, May (Dnd); **SI,** Feb 22, in sifting, *Woodr* (L&D), Jl, *Eng* (Sf); **LI:** Huntington, Sep, *Schott* (Sf).

10201 **S. gemellatus** Duv. (*quadricollis* Lec.). E. Aurora, Je (Dnd); Glens Falls, Oct (Felt); Westfield, May (Not); Schenectady, Je (NYS).

CATHARTUS Reiche

10203 **C. cassiae** Reiche. "NY" (J. Hamilton).

10204 **C. advena** Waltl. Newport, Sep (NYS); Sanborn, Nov (CU, Lg); Olcott, Sep–Nov (Dt); Buffalo (Z&R); E. Aurora, Nov (Flet, Dnd); New Baltimore, Sep (NYS); **SI,** in dried pears from Calif. (L&D).

10207 **C. longulus** Blatch. Mosholu (Sf).

NAUSIBIUS Redtenbacher

10209 **N. clavicornis** Kug. Mosholu (Sf); Van Cort. Pk., *Nic* (Sf).

CATOGENUS Westwood

10211 **C. rufus** Fab. Gloversville, Aug, *Alex* (NYS); Buffalo (Z&R); E. Aurora, May, Nov (Dnd); Ithaca, Mar, Oct (CU); Albany, May (NYS); West Pt. (Robn); Peekskill (Sherm); **SI,** Je, on seashore (L&D); **LI:** Hempstead, May, Pinelawn, Ap, *Eng* (Sf); Yaphank, May, Sep, Wading R., Jl (Ds).

10211d **C. rufus** var. **parvus** Csy. Ithaca, Ap–May (Dt).

CUCUJUS Fabricius

10221 **C. clavipes** Fab. Newport, Ap–Je (NYS); Oswego L., Nov (NYS); Olcott, May (Dt); Buffalo (Z&R); E. Aurora, Mar, Sep (Dnd); Avon (Cls); Pike, Ap–Je (NYS); Batavia, Sep (Kngt); Geneva, Mar–May, Dec (Cls); Westfield, May (Not); Ithaca, Mar–May (CU); Waterford, Jan (NYS); Albany, Nov, Shandakin, Je (NYS); West Pt. (Robn); White Plains (Fall, Sq); Bronx Pk. (Sf); **SI,** Jan–May, under bark (L&D); **LI:** Flushing (Ds, Sf, Eng).

LAEMOPHLOEUS Laporte

10225 **L. biguttatus** Say. L. Placid, Aug (Vdyk); Newport, May (NYS); Cranberry L. (H), Jl (Dury); Olcott, May, Aug (Dt); Buffalo (Z&R); Batavia, Jl–Sep (Kngt); Pike, May (NYS); West Pt. (Robn); **SI,** Ap–May (L&D); **LI:** Central Pk., Ap; Hempstead, May, Yaphank, Sep (Eng).

10226 **L. fasciatus** Melsh. Newport, Mar–Ap (NYS); Cranberry L. (H); Olcott, May (Dt); Buffalo (Z&R); Batavia, Aug–Sep (Kngt); Pike, Mar–Ap (NYS); Westfield, May (Not); **SI,** Ap–May (L&D).

10236 **L. convexulus** Lec. Mt. Seward, 4500 ft., Je (M&H); Glens Falls, Oct (NYS); Olcott, May–Je (Dt); Buffalo (Z&R); Windsor, Je (Not); West Pt. (Robn); **SI,** May 6, under bark (L&D); **LI:** Central Pk., Ap–May, Hempstead, May, *Eng* (Sf).

10238 **L. sphaerops** Csy. Olcott, Ithaca, May (Dt).

10239 **L. adustus** Lec. Newport, Ap (NYS); Johnstown, Ap, *Alex* (NYS); Cranberry L., Je 30, in sweeping (H); Wanakena, Aug (Drk); Syracuse, May, on herbage (H); Olcott, Ap (Dt); Ithaca, May (Dt); Windsor, Je, Schoharie (Not); Nassau, May (NYS); West Pt. (Robn); Mosholu (Sf); **SI,** Je, under willow bark (L&D); **LI:** Central Pk., Ap (Eng); Orient, *Lath* (NYS).

10242 **L. modestus** Say. Buffalo (Z&R); **SI,** May (L&D).

10243 **L. apertus** Csy. Syracuse, Ap–May, under bark (H); Westfield, May (Not); Mosholu (Sf); **LI:** Wyandanch, Nov, *Schott* (Sf).

10245 **L. sobrinus** Csy. Westfield, May (Not).

10246 **L. liquidus** Csy. Newport, May (NYS); Castorland; Olcott, May–Je (Dt); Ithaca, Ap–Je (CU); Ilion, May (NYS); Buffalo (Z&R); **SI,** Ap–Je (L&D); **LI:** Wyandanch, Feb, *Schott* (Sf).

10247 **L. nitens** Lec. **LI:** Wyandanch, Oct–Nov, *Schott* (Sf).

10248 **L. punctatus** Lec. West Pt. (Robn).

10254 **L. angustulus** Lec. Peekskill, *Sherm* (Sf).

10258 **L. ferrugineus** Steph. Buffalo (Z&R).

DENDROPHAGUS Schönherr

10272 **D. cygnaei** Mann. Green L., Jan (Dt); Buffalo (Mann–ANSP).

BRONTES Fabricius

10273 **B. dubius** Fab. Keene Val., Je (Not); Newport, May (NYS); Cranberry L., Je 23 (H); Syracuse, May, under bark (H); Batavia, Aug–Sep (Kngt); Westfield, May (Not); Castile, *Brad* (Flet); E. Aurora, May–Je, Oct (Dnd); Buffalo (Z&R); Ithaca, Mar–Ap (CU); Albany, Nassau, May, Nov (NYS); Rensselaer, Jl (NYS); West Pt. (Robn); NYC (Martin); **LI:** Central Pk., Ap, Yaphank, Je, *Eng* (Sf).

10274 **B. debilis** Lec. Olcott, May–Je (Dt); E. Aurora, May, Sep (Dnd); Ithaca, Mar, Sep (Dt); Mosholu (Sf); Van Cort. Pk. (AM); **SI,** May–Je, Sep, under bark (L&D); **LI:** Rockaway, Je, Yaphank, May (Ds); Flatbush (AM).

TELEPHANUS Erichson

10276 **T. velox** Hald. Syracuse, Ap–Je, under stones (H); Olcott, Ap–Sep (Dt); Lockport, Sep (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Oneida L., Aug (Drk); Ithaca, Mar–Aug (CU); Taughannock Falls, Aug (Vdyk); Montour Falls, Ap–Je, under stones (H); Albany, Rensselaer, Kenwood, May–Je, Nov (NYS); Peekskill, Mar (CU); West Pt. (Robn); White Plains, in sifting in autumn (Fall, Sq); Mosholu (Sf); **SI,** Mar–Oct (L&D); **LI:** Rockaway Beach, Ap, *Eng* (Sf); Flatbush (AM).

PSAMMOECUS Latreille

10278 **P. desjardinsi** Guér. NYC (Sf).

FAMILY EROTYLIDAE

SUBFAMILY LANGURIINAE

LANGURIA Latreille

10279 **L. bicolor** Fab. Buffalo (Z&R).

10282 **L. mozardi** Latr. CLOVER-STEM BORER. Syracuse, May–Je (H); Buffalo (Z&R); Pike (NYS); Rock City, Je (CU); Ithaca, Caroline, May–Jl, Sep (Dt–CU); Montour Falls, May–Je (H); Windsor, Je (Not); Karner, Je (NYS); Mosholu (Sf); New Baltimore, Albany (AM); Bangall, Sep (Sf); Poughkeepsie, Je (NYS); West Pt. (Robn); White Plains, May (Fall, Sq); **SI**, May–Je, often common on dandelion flowers (L&D); **LI**: Farmingdale, Je (CU); Pinelawn, Ap, *Eng* (Sf); Yaphank, May, *Eng* (Sf).

10284 **L. taedata** Lec. Near NYC (Lec); **SI**, Jl (L&D); **LI**: Rockaway Beach, Je, *Eng* (Sf).

10286 **L. angustata** Beauv. Buffalo (Z&R); Greenwood L., *Dt* (Sf); **SI**, Jan 19, under stones (L&D).

10286a **L. angustata** var. **uhleri** Horn. "NY" (Horn).

10287 **L. trifasciata** Say. **SI** (L&D).

ACROPTEROXYS Gorham

10292 **A. gracilis** Nevm. Rochester Jct., Je, *Leon* (CU); Buffalo (Z&R); E. Aurora, May, Jl (Dnd); Batavia, Je (Kngt); Windsor, Je (Not); Ithaca, Je–Jl, Sep (Dt–CU); White Plains, Je–Jl (Sq); Van Cort. Pk., Je (Sf); **SI**, Je–Jl (L&D).

10292a **A. gracilis** var. **inornata** Rand. Newport, Je (NYS); Buffalo (Z&R).

10293 **A. lecontei** Cr. Karner, Jl (NYS); Rensselaer, May (NYS); Clayville, Je, *Leon* (NYS).

SUBFAMILY EROTYLINAE

ISCHYRUS Lacordaire

10301 **I. quadripunctatus** Oliv. Buffalo (Z&R); Pike, May (NYS); Batavia, Aug (Kngt).

TRITOMA Fabricius

10308 **T. sanguinipennis** Say. Newport (NYS); Johnstown, Sep (NYS); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora, Je (Dnd); Pine I., Je (Ds); **SI** (L&D); **LI**: Orient, Nov (Ds).

10309 **T. pulcher** Say. Newport (NYS); Cranberry L., Je 11–Jl 6, in fungi (H); West Pt. (Robn); Olcott, Oct (Dt); Buffalo (Z&R); E. Aurora, Aug (Dnd); North Branch (Schaupp); **SI**, Aug, many in a fungus, Sep (L&D).

10309a **T. pulcher** var. **dimidiatus** Lac. Mosholu (Sf).

10310 **T. dissimulator** Cr. Wilmington, Jl (Ds).

10314 **T. angulata** Say. Pike, Ap–May (NYS); Albany, May, Jl (NYS); Mosholu (AM); **SI**, Jl, in a fungus (L&D); **LI**: Flatbush, Parkville (AM).

10317 **T. biguttata** Say. Poughkeepsie, Aug (NYS); West Pt. (Robn); **SI,** Aug (L&D); **LI,** Jl, *Eng* (Sf).

10319 **T. humeralis** Fab. Newport, Je (NYS); Buffalo (Z&R); Pike (NYS); Ithaca, Je, Aug (Dt); Corinth, Albany, Wemple, Jl (NYS); **SI** (L&D); **LI:** Yaphank, Je (Sf).

10323 **T. unicolor** Say. Johnstown, Sep (NYS); Buffalo (Z&R); Mosholu (Sf).

TRIPLAX Herbst

10328 **T. flavicollis** Lac. Buffalo (Z&R); E. Aurora, Aug (Dnd); Oneida L., Aug (Drk); Windsor, Je (Not); West Pt. (Ds); White Plains, Jl (Fall, Sq); Mosholu (Sf); **SI** (L&D).

10332 **T. macra** Lec. Newport (NYS); Buffalo (Z&R); West Pt. (Robn).

10334 **T. thoracica** Say. Cranberry L., Je 23–Aug (H); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je–Oct (Dnd); Batavia, Sep (Kngt); Ithaca, Je (Dt); Windsor, Je (Not); Albany, Jl (NYS); West Pt. (Robn); White Plains, Jl (Fall, Sq); **SI,** Je–Jl (L&D).

DACNE Latreille

10342 **D. quadrimaculata** Say. Newport (NYS); Johnstown, Aug (NYS); Olcott, May (Dt); E. Aurora, Aug (Dnd); Buffalo (Z&R); Batavia, Jl–Aug, *Kngt* (AM); Albany, Jl, Ballston Spa, Je (NYS).

HYPODACNE LeConte

10346 **H. punctata** Lec. Buffalo (Z&R).

MEGALODACNE Crotch

10347 **M. fasciata** Fab. White L. (AM); Olcott, Sep (Dt); Buffalo (Z&R); E. Aurora, Je–Jl (Dnd); Batavia, Sep (Kngt); Ithaca, Jan, Ap (Dt–CU); Hudson Falls, Sep (NYS); Pine I., Je (Ds); West Pt. (Robn); **SI** (L&D); **LI:** Queens, Mar, *Schott* (Frost); Newtown, Je, *Eng* (Sf); Orient (Ds). Larvae occur in the fungus *Polyporus lucidus,* according to Weiss.

10348 **M. heros** Say. Newport, Je (NYS); Buffalo (Z&R); E. Aurora, May–Je (Dnd); Rock City (Ds); White L. (AM); Ithaca, May–Aug (Dt); Trenton Falls, Je (NYS); Albany, Je, *Bish* (NYS); Rensselaer, Aug (NYS); Rockland Co, Aug, *Martin* (Sf).

FAMILY DERODONTIDAE

LARICOBIUS Rosenhauer

10350 **L. erichsoni** Rosenh. Ithaca, May (Blaisdell, Dt); **SI,** Dec (L&D).

DERODONTUS LeConte

10353 **D. maculatus** Melsh. E. Aurora, Je (Dnd); Pike, Oct 11 (Frost); Johnstown, *Alex* (Yg–NY); Rochester (M&W); Buffalo (Z&R); Valhalla, Nov, *Schott* (Sf); **SI,** Nov, *Shoe* (L&D).

FAMILY CRYPTOPHAGIDAE

SUBFAMILY CRYPTOPHAGINAE

DIPLOCOELUS Guérin-Ménéville

10356 **D. brunneus** Lec. **SI**, on dry fungus (L&D).

10357 **D. rudis** Lec. **LI**: Orient, Feb (NYS).

TELMATOPHILUS Heer

10360 **T. americanus** Lec. Batavia, Jl (Kngt); **SI**, Je (L&D).

LOBERUS LeConte

10361 **L. impressus** Lec. Buffalo (Rein).

TOMARUS Erichson

10365 **T. pulchellus** Lec. Keene Val., Jl (NYS); Oneida L., Aug (Drk); Buffalo (Z&R); Montour Falls, Je (H); Westfield, May, Windsor, Je (Not); Karner, Jl, Nassau, May, Albany, Aug (NYS); Schoharie (Not); Rockland L., Aug (NYS); **SI**, Mar, in mouse nest, Ap, Sep–Nov (L&D); **LI**: Central Pk., Ap (Eng); Orient, *Lath* (NYS).

ANTHEROPHAGUS Latreille

10370 **A. ochraceus** Melsh. Axton, Je (M&H), as *Atomaria*; E. Aurora, Jl (Flet, Dnd); Peekskill (Ds).

CROSIMUS Casey

10376 **C. obesulus** Csy. "NY" (Csy); Johnstown, Aug (NYS).

10377 **C. hirtus** Csy. Westfield, May (Not).

CRYPTOPHAGUS Herbst

10384 **C. acutangulus** Gyll. Newport (NYS); E. Aurora, Je (Dnd); Batavia, Jl (Kngt); Albany, Ap (NYS); West Pt. (Robn).

10385 **C. cellaris** Scop. Buffalo (Z&R); Albany, May, *Hartman* (NYS); **LI**: Orient, Feb (NYS).

10393 **C. cicatricosus** Csy. "NY" (Csy).

10398 **C. croceus** Zimm. Newport (NYS); Buffalo (Z&R); Menands, Feb (NYS); **SI**, Jl (L&D); **LI**: Orient Pt., May (NYS).

HENOTICUS Thomson

10418 **H. serratus** Gyll. Cranberry L., Je, on maple blossoms (H); Sacandaga Pk., Aug (NYS); West Pt. (Robn).

SUBFAMILY ATOMARIINAE

CAENOSCELIS Thomson

10427 **C. macilenta** Csy. "NY" (Csy); Cranberry L., Je (H).
10428 **C. basalis** Csy. "NY" (Csy).

ATOMARIA Stephens

—— **A. lineola** Not. Schoharie (Not) as *Agathengis*; Windsor, Je (Not).
10436 ?**A. pumilio** Csy. Cranberry L., *Htly* (H).
—— **A. parviceps** Not. Westfield, May (Not).

ANCHICERA Thomson

10463 **A. ephippiata** Zimm. Axton, Je (M&H); Newport, Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Batavia, Jl (Kngt); Castile, *Brad* (Flet); Montour Falls, May–Je (H); Bridgeport, May–Je (H); Schoharie (Not); Windsor, Je (Not); Delmar, Mar (NYS); Clinton Hgts., Ap (NYS); West Pt. (Robn); **SI**, Ap, in sifting, *Nic* (L&D); **LI**: Orient, *Lath* (NYS).
10467 **A. distincta** Csy. **SI**, Ap, in sifting, *Nic* (L&D).
10471 **A. ochracea** Csy. Windsor, Je (Not).
10471b **A. ochracea** var. **pennsylvanica** Csy. Schoharie (Not); Westfield, May, Windsor, Je (Not).
10473 **A. gonodera** Csy. Cranberry L., Je (H).
10479 **A. oblongula** Csy. Mooers, Sep (Not); Schoharie (Not); Westfield, May, Windsor, Je (Not).
10481 **A. pusilla** Payk. Newport, May (NYS); Schoharie (Not); Windsor, Je (Not).
10483 **A. ovalis** Csy. Newport, May (NYS); Cranberry L., Je 25(H); Batavia, Jl–Sep (Kngt); Schoharie (Not); West Pt. (Robn).
—— **A. ebenina** Csy. NY, type locality.
—— **A. nebulosa** Csy. NY, type locality.

EPHISTEMUS Stephens

10488 **E. apicalis** Lec. Newport (NYS); Ithaca, Je (NYS).

FAMILY MYCETOPHAGIDAE

MYCETOPHAGUS Hellwig

10490 **M. punctatus** Say. Newport, May (NYS); Ilion (NYS); Buffalo (Say); Pike, Jl (NYS); E. Aurora, Aug (Dnd); Batavia, Jl (Kngt); Albany, Jl (NYS); West Pt. (Ds); **SI**, Aug (L&D).
10491 **M. flexuosus** Say. Newport, May (NYS); Cranberry L., Je, in fungus *Collybia platyphylla* (H); Buffalo (Say); Pike, May, Aug (NYS); Johnstown, Sep (NYS); E. Aurora, Aug (Dnd); Batavia, Jl–Aug (Kngt); Ballston Spa, Je (NYS); **SI**, Ap, Je (L&D); West Pt., Ft. Montgomery, Je (Ds).

10493 **M. pictus** Csy. Windsor, Je (Not).

10501 **M. pluripunctatus** Lec. Syracuse, Ap, in bracket fungus (H); Newport (NYS); Buffalo (Z&R); **SI**, Jl 4, in fungus on maple (L&D).

10503 **M. bipustulatus** Melsh. Newport (NYS); Nassau, Je (NYS); NYC, May (Ds); **LI**: Huntington, Dec, under log (Schott).

10507 **M. tenuifasciatus** Horn. **LI**: Rockaway Beach, May (Shoe); Yaphank, Sep (Sf).

10508 **M. obsoletus** Melsh. **LI**: Rockaway Beach, May (Shoe).

TYPHAEA Curtis

10509 **T. fumata** L. Newport (NYS); Canton, Sep (NYS); Batavia, Jl–Sep (Kngt); Castile, *Brad* (Flet); Buffalo (Z&R); Valley Falls, May (NYS); Cooperstown, Aug (NYS); West Pt. (Robn); **SI** (L&D); **LI**: Brooklyn (Sf).

LITARGUS Erichson

10511 **L. tetraspilotus** Lec. Buffalo (Z&R); **SI**, Aug (L&D); **LI**: Pinelawn, Aug (Sf); Bellport, Aug (Nic); Riverhead, Ap, *Cy* (NYS).

10512 **L. sexpunctatus** Say. Olcott, Aug (Dt); Buffalo (Z&R); West Pt. (Robn); **SI**, Ap (L&D); **LI**: Yaphank, Jl (Sf); Central Pk., Ap (Eng).

10516 **L. pallens** Csy. "NY" (Csy).

10514 **L. nebulosus** Lec. **SI**, Ap 27 (L&D); **LI**: Flatbush, Sep (Schott).

10517 **L. didesmus** Say. Albany, Ap (NYS); **SI**, May–Je, *Thompson* (L&D); **LI**: Bellport, Jl–Aug (Nic); Yaphank, Ap (Eng).

FAMILY COLYDIIDAE [47]

SYNCHITA Hellwig

10526 **S. laticollis** Lec. NY (Lec).

10527 **S. variegata** Lec. Mosholu (Sf). Described from southern Calif., but Schaeffer states that this single specimen, as well as some from Canada, agrees with the description of *variegata* but not with that of *parvula*.

10529 **S. parvula** Guér. Ithaca, Je (Chitt).

10530 **S. fuliginosa** Melsh. Buffalo (Z&R); West Pt. (Robn); Bronx Pk. (Sf); **SI**, Je, in old fungus (L&D); **LI**: Rockaway Beach, Je, *Eng* (Sf); Long Beach, Je, *Eng* (Sf).

EUCICONES Sharp

10533 **E. marginalis** Melsh. NYC (Julich).

BITOMA Herbst

10539 **B. pinicola** Schffr. **LI**: Central Pk., Sep, Rockaway Beach, May (Eng); Wyandanch, Je, *Schott* (Sf).

10541 **B. quadriguttata** Say. Pike, Newport (NYS); Buffalo (Z&R); **SI** (L&D); **LI**: Yaphank, Nov, *Eng* (Sf).

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[47] Charles Schaeffer has gone over the list for this family, and has supplied many records and made certain changes in synonymy.

COXELUS Latreille

10551 **C. guttulatus** Lec. Buffalo (Z&R); **LI:** Central Pk., Ap, *Eng* (Sf).

LASCONOTUS Erichson

10558 **L. borealis** Horn. Cranberry L., Je–Jl (H).

AULONIUM Erichson

10576 **A. parallelopipedum** Say. **SI,** under elm bark (L&D).

COLYDIUM Fabricius

10580 **C. lineola** Say. Cranberry L. (H); Buffalo (Z&R); Bronx Pk. (Sf); **SI, Je (L&D).**

XUTHIA Pascoe

—— **X. brevipes** Shp. **LI:** Astoria, Aug, introduced in mahogany logs, *Sz* (Felt–Jour. N. Y. Ent. Soc. 21: 275, 1913).

BOTHRIDERES Erichson

10592 **B. geminatus** Say. Syracuse, Je (Drk); Buffalo (Z&R); Genesee Co., Ap (NYS); Mosholu, May, in hickory (Ds).

CERYLON Latreille

10598 **C. castaneum** Say. Fourth L., Je (NYS); Newport (NYS); Cranberry L., Je–Jl (H); Syracuse, May, under bark (H); Westfield, May, Windsor, Je (Not); Buffalo (Z&R); Schoharie (Not); Albany, Nassau, Kinderhook (NYS); West Pt. (Robn); **SI,** Ap, Nov (Shoe, Woodr), May, Oct, under bark (L&D); **LI:** Queens, Sep (Schott); Flatbush, Ap, *Eng* (Sf).

10601 **C. sticticum** Csy. **SI,** Jl (L&D); Catskills, *Pears* (Sf).

PHILOTHERMUS Aubé

10604 **P. glabriculus** Lec. Newport (NYS); Montour Falls, under bark, Ap (H); Westfield, May, Windsor, Je (Not); Delmar, Karner, Ap (NYS); West Pt. (Robn); **SI,** Ap–May (L&D); **LI:** Pinelawn, Central Pk., Ap, *Eng* (Sf); Southold, Ap (NYS); Orient, *Lath* (NYS).

FAMILY LATHRIDIIDAE [48]

HOLOPARAMECUS Curtis

10614 **H. kunzei** Aubé. NY (Fall).

[48] H. C. Fall has read the manuscript for this family, and has suggested one or two changes in synomyny and added some records.

LATHRIDIUS Herbst

10627 **L. breviclavus** Fall. **LI** (Fall).

10631 **L. liratus** Lec. Newport, May–Je (NYS); Cranberry L., Je (H); Olcott, Mar–Jl (Dt); Schoharie (Not); Johnstown, Sep (NYS); McLean, Je (Flet); Ithaca, Mar–Jl (Dt); Windsor, Je (Not); West Pt. (Robn); **SI**, Jl (L&D).

CONINOMUS Thomson

10633 **C. constrictus** Gyll. Cranberry L., Je 25, in decaying fungi (H).

10635 **C. nodifer** Westw. Olcott, Je (Dt).

ENICMUS Thomson

10639 **E. hirtus** Gyll. NY (Fall).

10642 **E. minutus** L. Newport, May–Je (NYS); Speculator, Je (NYS); Buffalo (Z&R); Rochester (M&W).

10646 **E. aterrimus** Mots. "NY" (Fall); Peekskill, Je (Sherm), as *opaculus*.

10656 **E. tenuicornis** L. Otsego (Fall); Olcott, Je (Dt).

CARTODERE Thomson

10659 **C. ruficollis** Marsh. Albany, Ap, Jl (NYS); Nassau, Ap (NYS); Blauvelt, Aug (NYS).

10662 **C. argus** Reit. Schoharie (Not).

10664 **C. filum** Aubé. NY (Fall); Ithaca, Sep (Dt).

10665 **C. elegans** Aubé. NYC, Oct, *Woodr* (Not).

ADISTEMIA Fall

10666 **A. watsoni** Woll. NYC, infesting boxes of moldy beetles in collection of L. B. Woodruff, Oct 5, 1920 (Fall).

CORTICARIA Marsham

10669 **C. pubescens** Gyll. NY (Fall); Newport, May–Je (NYS).

10679 **C. serricollis** Lec. Peekskill, Jan, *Sherm* (Sz).

10685 **C. serrata** Payk. Buffalo (Z&R); Windsor, Je (Not).

10689 **C. dentigera** Lec. Cranberry L., in fungi (H).

10693 **C. elongata** Gyll. Rochester (M&W); Schoharie (Not); **SI**, Oct 9, in sifting (L&D).

10694 **C. ferruginea** Marsh. "NY" (Lec), as *obtusa*; Cranberry L., Je 29 (H); Buffalo (Z&R); West Pt. (Robn).

MELANOPHTHALMA Motschulsky

10696 **M. picta** Lec. Mooers, Sep (Not); Schoharie (Not); Westfield, May, Windsor, Je (Not); Olcott, Feb, Ap (Dt); West Pt. (Robn).

10699 **M. villosa** Zimm. Mooers, Sep (Not); Cranberry L., Je–Jl (H); Westfield, May, Windsor, Je (Not).

10701 **M. distinguenda** Com. Mooers, Sep (Not); Axton, Je (M&H); Cranberry L., Je (H); Newport, May–Je (NYS); Syracuse, May–Oct (H); Rochester (M&W); Montour Falls, May–Oct (H); Westfield, May (Not); Schoharie, Windsor (Not); Bridgeport, May–Oct (H); Ithaca, Ringwood, McLean, Feb–Nov (Dt); **LI:** Orient, Ap (NYS).

10703 **M. pumila** Lec. Cranberry L., Je–Jl (H); Buffalo (Z&R); Schoharie (Not); West Pt. (Robn); **SI,** *Joutel* (L&D); **LI:** Central Pk., Ap (Eng); Rockaway Beach (AM, Lg); Coney I. (Lg).

10705 **M. gibbosa** Hbst. Cranberry L., Je–Jl (H); Syracuse (H); Bridgeport **(H).**

10711 **M. longipennis** Lec. Montour Falls, Je (H); Olcott, Je (Dt); Westfield, May, Windsor, Je (Not).

10712 **M. americana** Mann. Johnstown, Sep (NYS); Olcott, Feb, Je–Jl (Dt); Westfield, May (Not); Ithaca, Feb, Je–Jl (Dt); Catskills (Lg); **SI,** Je (L&D); **LI:** Coney I. (Lg).

10713 **M. cavicollis** Mann. Cranberry L., Je–Jl (H); Syracuse, May, queried (H); Olcott, Feb–Oct (Dt); Buffalo (Z&R); Ithaca, Saratoga, Feb–Oct (Dt); Albany, Ap (NYS); Windsor, Je (Not); West Pt. (Robn); **SI,** Feb 22 (Woodr), Sep (L&D).

FAMILY **MYCETAEIDAE**

MYCETAEA Stephens

10716 **M. hirta** Marsh. Buffalo (Z&R); **SI,** Mar, May, in fungus on logs and stumps (L&D); **LI:** Wyandanch, Jl, *Schott* (Sf).

RHANIS LeConte

10717 **R. unicolor** Ziegl. Newport (NYS); Olcott, Sep (Dt); Buffalo (Z&R); **SI,** Ap, Je, Jl, Nov (L&D); **LI:** Yaphank, Je, *Eng* (Sf).

PHYMAPHORA Newman

10718 **P. pulchella** Newn. Newport, May (NYS); Cranberry L., Jl 6 (H); Olcott Sep (Dt); Trenton Falls (Newn); Buffalo (Z&R); Johnstown, Oct (NYS); Ithaca, Ap 30 (CU); North Branch (Schaupp); Bronx Pk. (Sf).

FAMILY **ENDOMYCHIDAE**

SUBFAMILY **ENDOMYCHINAE**

LYCOPERDINA Latreille

10720 **L. ferruginea** Lec. Keene Hgts., Je (Not); Olcott, Oct (Dt); Buffalo (Z&R); Pike, Sep (NYS); E. Aurora, Cortland Co, Je–Sep (Dnd); Ithaca, Ap 14 (CU); White L., *Zab* (AM); W. Hebron (Lg); West Pt. (Robn); Mosholu, Nov (Ang); **SI,** Je, Dec (L&D); **LI:** Central Pk., May, *Eng* (Sf); Yaphank, Je, *Eng* (Sf); Flatbush, *Zab* (AM). In puffball fungus.

APHORISTA Gorham

10726 **A. vittata** Fab. Newport (NYS); North Cr., Je (NYS); Buffalo (Z&R); Erie Co, May, Sep (Dnd); Batavia, Ap (Kngt); Castile, *Brad* (Flet); Ithaca, May 3 (CU); Meredith, May, *Cy* (NYS); W. Hebron (Lg); Middlesex, Aug 13 (Cls); **SI** (L&D); **LI:** Wyandanch, Ap (Ds); Central Pk., Ap, Pinelawn, Yaphank, May, *Eng* (Sf); Orient Pt., Ap, Sep (NYS).

MYCETINA Mulsant

10727 **M. perpulchra** Newn. Newport, Je (NYS); Cranberry L., Je–Jl (H); Gloversville, Ap (NYS); Olcott, Sep (Dt); Wolcott, May, *Cy* (NYS); Buffalo (Z&R); E. Aurora, Je (Dnd); Alpine, Nov (NYS); Ithaca, Je (Dt); Trenton Falls (Newn); North Branch (Schaupp); Voorheesville, May (NYS); West Pt. (Robn).

10730 **M. testacea** Ziegl. Newport (NYS); Ithaca, Mar (Dt); W. Hebron (Ds Coll).

STENOTARSUS Perty

10739 **S. hispidus** Hbst. **LI:** Huntington, Aug 22, *Schott* (Frost).

ANAMORPHUS LeConte

—— **A. sp.** **LI:** Yaphank, Je (Sf).

RHYMBUS Gerstaecker

10752 **R. pilosus** Csy. Bluff Pt., L. Champlain (Csy).

ENDOMYCHUS Panzer

10753 **E. biguttatus** Say. Elizabethtown, Pike, Newport (NYS); Long L. (Ds Coll); Cranberry L., Jl 20 (H); Buffalo (Z&R); Batavia, Je–Sep (Kngt); Geneva, Mar (Cls); Cattaraugus Co (Ds Coll); Schuyler, Mar (NYS); Ithaca, Jl 30, *Yuasa* (Vdyk); L. George, Aug, *Zab* (AM); Phoenicia, Aug, *MCV* (NYS); West Pt. (Robn); Ramapo Mts. (AM); White Plains (Fall, Sq); **SI**, Jan–Oct, under beech bark (L&D); **LI:** Riverdale, Oct, *Eng* (Sf).

FAMILY PHALACRIDAE

PHALACRUS Paykull

10772 **P. pumilio** Lec. Axton, Je (M&H); Syracuse, May (H); **SI**, May–Je, on seashore (L&D).

10773 **P. politus** Melsh. Axton, Je (M&H); Syracuse, May (H); Buffalo (Z&R); L. George, Aug (Not–AM); Albany, Jl (NYS); White L., Sep (Not–AM); **SI**, Je (L&D); **LI:** Rockaway Beach, Je (Ds).

OLIBRUS Erichson

10776 **O. vittatus** Lec. NY (Csy).

10777 **O. lecontei** Csy. Buffalo (Z&R).

10779 **O. abstinens** Csy. **LI** (Csy).

10780 **O. semistriatus** Lec. Juanita I., L. George, Jl, *Bish* (NYS); **SI**, Aug (L&D).

10782 **O. frustratus** Csy. NY (Lg).

10783 **O. bullatus** Csy. (*sternalis* Csy.). **LI** (Lg).

10784 **O. impotens** Csy. NY (Lg Cat.).

10785 **O. neglectus** Csy. NY (Csy).

10786 **O. pallipes** Say. NY (Csy); **SI** (L&D).

ACYLOMUS Sharp

10813 **A. ergoti** Csy. Axton, Je (M&H); Cranberry L., Je (H); Syracuse, Montour Falls, Bridgeport, May–Je (H); **SI**, May (L&D).

STILBUS Seidlitz

10828 **S. pallidus** Csy. "NY" (Lg).

10829 **S. apicalis** Melsh. Newport, May (Yg); Cranberry L., Je–Jl (H); Oswego, Jl, *Bks* (NYS); Syracuse, Ap, Je (H); Buffalo (Z&R); Oswego, Jl (Yg); Batavia, Je–Aug (Kngt); Montour Falls, May–Je (H); Westfield, May (Not); West Pt. (Robn); Gloversville, Ap (NYS); White Plains, Aug (Frost, Sq); **SI**, May, Aug (L&D); **LI**: Orient, May (NYS).

10831 **S. probatus** Csy. "NY" (Lg).

10834 **S. ludibundus** Csy. "NY" (Csy).

10836 **S. finitimus** Csy. NY (Csy).

10841 **S. obtusus** Lec. Mooers, Sep (Not); Schoharie (Not). Described from southern Calif.

10844 **S. nitidus** Melsh. Gloversville, Sep (NYS); Syracuse, Ap, Je, under stones (H); Buffalo (Z&R); Pike, Ap (NYS); Montour Falls, Ap, Je (H); **SI**, Ap (L&D); **LI** (Csy).

10849 **S. thoracicus** Csy. "NY" (Csy).

10851 **S. quadrisetosus** Csy. NY (Lg).

—— **S. atomarius** L. Schoharie (Not); Windsor, Je (Not).

FAMILY COCCINELLIDAE

SUBFAMILY COCCINELLINAE

HYPERASPIS Chevrolat

10874 **H. lateralis** Muls. Buffalo (Z&R).

10876 **H. bigeminata** Rand. Cranberry L., *Htly* (H); Mt. Seward, Je (M&H); Mt. Whiteface, Jl, *Shoe* (Sf); Mt. Marcy, Jl, *Wat* (Lg); Buffalo (Z&R).

10879 **H. signata** Oliv. Mt. Marcy, Jl (NYS); Syracuse, May (H); Olcott, May–Jl (Dt); E. Aurora, May–Jl (Dnd); Westfield, May (Not); Ithaca, May–Aug (CU); Albany, Sep (NYS); Karner (NYS); West Pt. (Robn); Ludlow, *Thompson* (Lg); **SI**, May–Aug (L&D); **LI**: Rockaway Beach, *Eng* (Sf); Yaphank, May, *Pollard* (Lg).

H. binotata Say. Buffalo (Lg); West Pt. (Robn); Ludlow (Lg); Mosholu (Lg); **LI**: Yaphank, May, *Pollard* (Lg).

10880 **H. proba** Say. Buffalo (Z&R); Ithaca, Jl–Aug (CU); Montour Falls, Je (H); West Pt. (Robn); **SI,** Aug–Sep (L&D); **LI:** Yaphank, Je, Amagansett, Aug, *Eng* (Sf); Orient, *Lath* (NYS).

10908 **H. fimbriolata** Melsh. Minerva, Jl 20, 1925, on Solidago (Frost); White Plains, Sep (Sq); **SI,** two at Ward's Pt., Je 5 (L&D); **LI:** Rockaway Beach, Long Beach, Yaphank, May, Jl, *Eng* (Sf).

10914 **H. serena** Csy. Mt. Whiteface, Sep (Lg); Mosholu, Je, Aug (Lg).

10921 **H. disconotata** Muls. Cascade L., Aug (Lg).

10922 **H. troglodytes** Muls. **SI,** Jl (L&D).

10923 **H. lugubris** Rand. Ithaca, May–Aug (CU).

10930 **H. undulata** Say. Wilmington, Jl, Cascade L., Aug (Lg); Newport, May (NYS); Gloversville, Johnstown, Ap–May (NYS); Oswego, May (NYS); Syracuse, Ap–May, under stones (H); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Ap–Jl (CU); West Pt., Jl, *Eng* (Sf); Croton-on-Hudson, Je, *Ang* (Lg); **LI:** Rockaway Beach, Long Beach, Yaphank, Ap–Jl, *Eng* (Sf); Orient Pt.

BRACHYACANTHA Chevrolat

10967 **B. dentipes** Fab. NY (NYS).

10972 **B. ursina** Fab. Newport, Je (NYS); New Russia, Aug (Brad–CU); Cranberry L., Jl (Drk); Otto, Jl (CU); Pike, Je (NYS); Erie Co, May–Jl (Dnd); Westfield, May (Not); Ithaca, Je–Aug (CU); Schoharie (Not); Albany, Je (NYS); Nassau, Jl (NYS); Poughkeepsie, Je (NYS); Bangall, Sep (Eng); Peekskill (Sherm); White Plains (Sq); **SI,** May–Jl, common (L&D); **LI:** Flushing, Bayshore, Yaphank (Sf).

10972a **B. ursina** var. **congruens** Csy. Ithaca (Pack).

10974 **B. felina** Fab. var. **decempustulata** Melsh. Ogdensburg, Jl (NYS); Newport, Je (NYS); Castile, *Brad* (Flet); E. Aurora, Cortland Co, Je–Jl (Dnd); Olcott, Ithaca (Dt); Schoharie (Not); Karner, Je (NYS); Ellenville, Sep–Nov, *Nic* (Frost); West Pt. (Robn); White Plains (Sq); **SI,** Je–Jl (L&D); **LI:** Yaphank, Jl (Eng).

10977 **B. indubitabilis** Cr. Ft. Montgomery, Jl (Ds); **LI:** Massapequa, Jl, *Shoe* (Sf).

10979 **B. quadripunctata** Melsh. Pike, Je (NYS); Ithaca, Aug (CU); Poughkeepsie, Je (NYS); Mosholu (Sf); **LI:** Yaphank, Oct, *Eng* (Sf).

10979b **B. quadripunctata** var. **flavifrons** Muls. W. Hebron, Jl (Lg).

MICROWEISEA Cockerell

10988 **M. marginata** Lec. Ithaca, Ap (Pettit,Horn).

10989 **M. misella** Lec. Cranberry L., Je–Jl (H); Ithaca, May, Aug (Dt); Albany, Sep (Felt); Germantown (NYS); West Pt. (Robn); Orange Co (Felt); Mosholu (Sf); **SI,** Jl–Aug (L&D).

STETHORUS Weise

10998 **S. punctum** Lec. Cranberry L., Je (H); Olcott (Dt); West Pt. (Robn); **SI,** Aug–Sep, many specimens (L&D).

SCYMNUS Kugelann

11011a **S. creperus** Muls. var. **fraternus** Lec. Ithaca (Pack); Montour Falls, Je (H), with query; Ithaca, Aug (Dt); Schoharie (Not).

11012 **S. brullei** Muls. NY (Horn).

11013 **S. haemorrhous** Lec. Buffalo (Z&R); Ludlow, *Thompson* (Lg); **SI** (L&D).

11016 **S. chromopyga** Csy. **SI,** May–Aug (L&D).

11018 **S. cervicalis** Melsh. West Pt. (Robn); **SI,** Sep (L&D).

11024 **S. caudalis** Lec. Ithaca (Pack).

11028 **S. collaris** Melsh. Cranberry L., Jl, on Sambucus blossoms (H); Syracuse, May–Je (H); Buffalo (Z&R); Montour Falls, May–Je (H); Ithaca (Pack); **SI,** May–Aug (L&D); **LI:** Yaphank, May, *Pollard* (Lg).

11034 **S. indutus** Csy. Ithaca, Je (Dt).

11035 **S. puncticollis** Lec. Cranberry L., Je–Jl, on Spiraea and Prunus (H); Montour Falls, Je, queried (H); Schoharie (Not); West Pt. (Robn).

11036 **S. agricola** Csy. Ithaca, May (Dt).

11055 **S. tenebrosus** Muls. Axton, Je (M&H); Cranberry L., *Htly* (H); Ithaca, May–Sep (Dt); Schoharie (Not); West Pt. (Robn); **SI,** Je–Aug (L&D).

11060 **S. lacustris** Lec. Buffalo (Z&R).

11077 **S. punctata** Melsh. Castile, *Brad* (Flet); Ithaca, May (Dt); **SI** (Lg).

11079 **S. nanus** Lec. Cranberry L., Je, on willow (H); West Pt. (Robn).

11082 **S. americanus** Muls. Cranberry L., Je (H); Syracuse (H); Olcott, Jl (Dt); Buffalo (Z&R); Ithaca, Jl (Dt); West Pt. (Robn); Ludlow, *Thompson* (Lg); **SI,** May–Aug (L&D).

11093 **S. flavifrons** Melsh. NY (Lec).

11093a **S. flavifrons** var. **bioculatus** Muls. Buffalo (Z&R); **SI** (L&D).

11094 **S. ornatus** Lec. McLean, May, June (Flet).

11115 **S. terminatus** Say. Buffalo (Z&R); Bronxville, Jl (Woodr).

DELPHASTUS Casey

11143 **D. pusillus** Lec. Cranberry L., *Htly* (H); Montour Falls, Je (H); Ithaca, Je (Pack); Woodhull L., Aug, *Love* (Lg); Van Cort. Pk., Aug (Sf).

COCCIDULA Kugelann

11147 **C. lepida** Lec. Ashland, Aug 4 (Frost); **LI:** Yaphank, Jl, *Eng* (Sf).

PSYLLOBORA Chevrolat

11150 **P. viginti-maculata** Say. Mooers, Sep (Not); Wilmington, Aug (Dt); Newport, Je (NYS); Keene Val., Sep, *Eng* (Sf); Cranberry L., Je (H); Syracuse, Ap–May, under log (H); Olcott, Mar–Sep (Dt); Buffalo (Z&R); Batavia, Je–Aug (Kngt); Westfield, May (Not); Ithaca, May–Oct (CU); Ilion, May (NYS); Schoharie (Not); Nassau, May (NYS); West Pt. (Robn); White Plains (Sq); **SI,** Jl–Oct (L&D); **LI:** Jamaica, Aug, Rockaway Beach, Je, *Eng* (Sf); Orient, *Lath* (NYS).

ANISOSTICTA Chevrolat

11154 **A. bitriangularis** Say. Saranac, Sep (Ds, Sf); Wanakena, Aug (Drk); Cranberry L., Je (H); E. Aurora, Ap (Dnd); Montour Falls, Je (H); Batavia, Je–Aug (Kngt); Ithaca, May–Je (Dt, Pack); McLean Bogs, May, Aug (CU); W. Hebron, Je (Lg); West Pt. (Robn); White Plains, May (Lg); **SI**, in swampy places (L&D).

NAEMIA Mulsant

11155 **N. seriata** Melsh. **SI**, May, Aug–Sep, often on *Solidago sempervirens* (L&D); **LI**: Aqueduct, Forest Pk., Rockaway Beach, Je–Sep (Sf); Orient, *Lath* (NYS).

CERATOMEGILLA Crotch

11158 **C. fuscilabris** Muls. (*Megilla maculata* auct. not DeG.). Syracuse, Ap–Je (H); Oswego Falls, Aug (NYS); Olcott (Dt); Buffalo (Z&R); Pike, Mar (NYS); Lockport, May (Cy); Batavia, Je–Aug (Kngt); Castile, Jl, *Brad* (Flet); Montour Falls, Ap–Je (H); Elmira, Aug (Cy); Ithaca, Mar–Sep (CU); Windsor, Je (Not); Albany, Karner, Aug (NYS); Nassau, Ap (Sherm); West Pt. (Robn); White Plains (Sq); Pine I., Je, *Pollard* (Lg); **SI**, Je–Oct (L&D); **LI**: Hempstead Plains, Central Pk., Rockaway Beach, Ap–Je (Sf); Orient, *Lath* (NYS). Often hibernates in numbers under stones (Lg).

HIPPODAMIA Dejean

11162 **H. tredecimpunctata** L. Essex Co, Jl (NYS); Cranberry L., Jl–Aug (Drk); Olcott, May (Dt); Buffalo (Z&R); Erie Co, Jl, Nov (Dnd); Batavia, Jl–Sep (Kngt); Westfield, May (Not); Lyons Falls, Aug (Mat); Ithaca, Je–Oct (CU); West Pt. (Robn); Croton-on-Hudson (Ang); White Plains (Sq); **SI**, Jl–Aug (L&D); **LI**: Rockaway Beach, Ap, Montauk Pt., *Eng* (Sf).

11163 **H. parenthesis** Say. Axton, Je (M&H); Wilmington, Aug (Dt); Wanakena, Aug (Drk); Cranberry L., Jl (H); Newport, Je (NYS); Oswego, Jl (NYS); Syracuse, Ap–Oct 6 (H); Olcott, Mar–Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, May–Aug (Dnd); Pike, Jl (NYS); Westfield, May (Not); Ithaca, Ap–Sep, Dec (CU); McLean Bogs, Jl (Dt); Albany, May (NYS); West Pt. (Robn); Peekskill (Sherm); Clinton Cr., Jl (NYS); White Plains (Sq); Croton-on-Hudson (Ang); **SI**, May–Aug (L&D); **LI**: Rockaway Beach, Yaphank, Je–Jl, *Eng* (Sf); Orient, *Lath* (NYS).

11171 **H. glacialis** Fab. Buffalo (Z&R); Elka Pk., Aug (Drk); Westfield, May (Not); Ithaca (Pack); Nassau, Ap (NYS); Poughkeepsie, Je (NYS); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq) **SI**, Je–Sep (L&D); **LI**: Rockaway Beach, Oct (L&D); Jamaica, Pinelawn, *Eng* (Sf); Orient Pt., Je (NYS).

11172 **H. quindecim-maculata** Muls. Batavia, Jl–Aug (Kngt); Portage, Aug (Kngt); McLean, May (CU).

11173 **H. convergens** Guér. Batavia, Jl (Kngt); Port Kent (Lint); Pike (NYS); Buffalo (NYS); Woodlawn Beach, L. Erie, Jl (Dnd); Windom, Oct (Dt); Castile, *Brad* (Flet); Ithaca, May–Sep (CU);

Coeymans (Lint); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); **SI**, Je–Nov, common (L&D); **LI**: Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

11175 **H. quinquesignata** Kby. Adirondacks (Lg); Cranberry L., Jl (H); L. Placid, Jl (NYS); Syracuse, Montour Falls, May–Je (H).

COCCINELLA Linnaeus

11181 **C. perplexa** Muls. Axton, Je (M&H); Wilmington, Aug (Dt); Newport, May (NYS); Cranberry L., Je–Jl (H); Syracuse, Ap–Je (H); Buffalo (Z&R); Batavia, Jl–Aug, as *trifasciata* L. (Kngt); Erie Co, May–Aug (Dnd); Montour Falls, Ap–Je (H); Ithaca, McLean, May (Dt); Schoharie, as *trifasciata* L. (Not); Karner, May (NYS); West Pt. (Robn); White Plains, *Pollard* (Lg); **SI**, May–Aug, often plentiful on white birches infested with plant lice (L&D); **LI**: Central Pk., Ap, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

11183 **C. tricuspis** Kby. Chateaugay L., Aug–Sep, Cascade L., Aug (Lg); Cranberry L., Jl (H).

11184 **C. novemnotata** Hbst. Wilmington (Dt); Denmark, May (NYS); Cranberry L., Je–Jl (H); Gloversville, Aug (NYS); Syracuse, Ap–Je (H); Rochester, Aug (Cy); Olcott, Windom (Dt); Buffalo (Z&R); E. Aurora (Dnd); Pike, Ap (NYS); Batavia, Je–Aug (Kngt); Castile, Jl, *Brad* (Flet); Montour Falls, Ap–Je (H); Westfield, May (Not); Ithaca, May–Sep (NYS, CU); McLean, May (CU); Dansville, Sep (CU); Schoharie (Not); Washington Co (Ashton); Albany, Nassau, May, Jl (NYS); Karner, Sep (NYS); Coeymans (Lint); Peekskill (Sherm); West Pt. (Robn); White Plains (Sq); **SI**, Mar–Aug, common (L&D); **LI**: Jamaica, May, Flatbush, Dec, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

11185 **C. transversoguttata** Fald. Mt. Marcy, Jl (NYS); Mooers, Sep (Not); Saranac (Lg); Wilmington, Aug (Dt); N. Elba, Jl, *Wat* (Lg); Olcott (Dt); Buffalo, Aug (NYS); Erie Co, May–Aug (Dnd); Westfield, May (Not); Ithaca (Pack); Highland, Aug (Cy); West Pt. (Robn); **SI**, Jl (L&D); **LI**: Orient, *Lath* (NYS).

11185a **C. transversoguttata** var. **quinquenotata** Kby. Essex Co, Jl (NYS); Washington Co (AshtonTB); Thousand Isls., Sep (CU); Castile, May, *Brad* (Flet); Ithaca, May (CU).

11187 **C. monticola** Muls. Mt. Whiteface, Jl (Lg); Wanakena, Cranberry L., Aug (Drk).

CYCLONEDA Crotch

11189 **C. sanguinea** L. Newport, Je (NYS); Cranberry L., Jl (H); Syracuse, May, Oct 6 (H); Olcott, Aug (Dt); Buffalo (Z&R); E. Aurora, Je–Sep (Dnd); Pike, Je (NYS); Batavia, Je–Aug (Kngt); Castile, Sep *Brad* (Flet); Ithaca, Jl–Sep (CU); Coeymans (NYS); West Pt. (Robn); White Plains (Sq); **LI**: Yaphank, May, *Pollard* (Lg); Orient Pt., May (NYS).

11189a **C. sanguinea** var. **immaculata** Fab. **LI**: Brooklyn, Jl (Nic).

11190 **C. munda** Say. Ithaca (Pack); **SI**, Je–Oct (L&D); **LI**: Pinelawn, Ap, Yaphank, Sep, *Eng* (Sf).

OLLA Casey

11192 **O. abdominalis** Say. "NY" (Lec). This record is doubtful (Lg).

ADALIA Mulsant

11193 **A. bipunctata** L. Cranberry L., Je–Jl (H); Green L., Jan (Dt); Pittsford, May (Leon); Olcott, Je–Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Jl (Kngt); Westfield, May (Not); Forestville, Dec (Cy); Castile, *Brad* (Flet); Fayetteville, Oct (NYS); Ithaca, Mar–Sep (NYS, CU); Windsor, Je (Not); Wampsville, Jl (Cy); Sherburne, Je (Cy); Albany, Nassau (Felt); Poughkeepsie (Sherm); Bangall (Sf); West Pt. (Robn); White Plains (Sq); Mt. Vernon (Flet); Croton-on-Hudson, May (Ang); NYC (Felt); **SI,** Ap–Oct, often hibernates in dwellings (L&D); **LI:** Westbury; Forest Pk., Je (Lg); Orient, *Lath* (NYS).

11194 **A. frigida** Schn. Saranac (Lg); Axton, Je (M&H); L. Placid, Aug (NYS); Brant L., *Doll* (Sf); Buffalo (Z&R); E. Aurora, Jl (Dnd).

11194a **A. frigida** var. **disjuncta** Rand. Saranac (Lg).

11194b **A. frigida** var. **humeralis** Say. **LI,** Sep, *Pears* (Sf).

CLEIS Mulsant

11196 **C. picta** Rand. Mt. Marcy, Jl (NYS); Mt. Whiteface, Jl (Lg); Mt. Seward, 4500 ft., Je (M&H); Speculator, Jl (NYS); Cranberry L., Je–Jl (H); Buffalo (Z&R); Ithaca, Je (CU); West Pt. (Robn); **SI,** Ap, Je (L&D); **LI:** Rockaway Beach, Long Beach, Wyandanch, Yaphank, May–Nov, *Eng* (Sf).

11197 **C. hudsonica** Csy. Mt. Whiteface, Jl, *Shoe* (Sf).

ANISOCALVIA Crotch

11200 **A. duodecim-maculata** Gebl. Mt. Whiteface, Jl, *Shoe* (Sf); Cranberry L., *Htly* (H).

11201a **A. quatuordecimguttata** L. var. **similis** Rand. Wilmington, Jl (Lg); Cranberry L., *Htly* (H).

11201b **A. quatuordecimguttata** var. **cardisce** Rand. "Adirondacks" (Csy); Mt. Whiteface, Jl (Lg).

—— **A. quatuordecimguttata** var. **exoleta** Weise. Mt. Whiteface, Jl, *Shoe* (Sf).

—— **A. quatuordecimguttata** var. **bicordifera** Csy. NY, type locality.

—— **A. quatuordecimguttata** var. **uniformis** Csy. NY, type locality.

11201d **A. quatuordecimguttata** var. **obliqua** Rand. Mt. Whiteface, Jl, *Shoe* (Sf).

—— **A. quatuordecimguttata** var. **scutulata** Weise. Mt. Whiteface, Jl, *Shoe* (Sf); Big Ind. Val., Jl, *Pears* (Sf).

ANATIS Mulsant

11202 **A. quindecimpunctata** Oliv. Plattsburg (NYS); Cranberry L., Je (H); Wilmington, Aug (Dt); Olcott, Je, Aug (Dt); Buffalo (Z&R); Pike (NYS); Batavia, Je–Jl (Kngt); Castile, *Brad* (Flet); Ithaca, Ap–Jl (NYS, CU); Albany, Karner (NYS); Poughkeepsie (NYS); West Pt., Jl (Eng); White Plains (Sq); Port Jervis (Lint); Pine I., Je,

Pollard (Lg); **SI**, May–Oct (L&D); **LI**: Mattituck (CU); Flatbush, Amagansett, *Eng* (Sf); Rockaway, May, *Pollard* (Lg); Orient, *Lath* (NYS).

11202a **A. quindecimpunctata** var. **mali** Say. Webster, Jl (CU); **SI**, on shore at Ward's Pt., Je 5 (L&D).

NEOMYSIA Casey

11205 **N. pullata** Say. Mt. Whiteface, Jl, *Shoe* (Lg); Buffalo (Z&R); Ithaca, Ap–Aug (CU); W. Hebron (Lg); West Pt. (Robn); **SI**, Mar, Je–Jl (L&D); **LI**: Far Rockaway, Central Pk., Promised Land (Sf).

11209 **N. randalli** Csy. Ithaca (Lg–CU).

AXION Mulsant

11212 **A. tripustulatum** DeG. **SI**, Je, Sep (L&D); **LI**: Coney I. (Lg); Yaphank, May (Sf); Rockaway, Je, *Pollard* (Lg).

CHILOCORUS Leach

11217 **C. bivulnerus** Muls. Mt. Whiteface, Jl (Lg); Cranberry L., Je–Jl (H); Olcott, May–Je (Dt); Buffalo (Z&R); Batavia, Aug (Kngt); Castile, May, *Brad* (Flet); Ithaca, Mar–Sep (CU); Bolton, *Thompson* (Lg); Albany, Karner, Nassau (NYS); Kingston, Jl (Sf); Poughkeepsie (NYS); West Pt. (Robn); **SI**, Ap–Jl (L&D); **LI**: Aqueduct, Babylon, Aug (Sf); Orient, *Lath* (NYS).

EXOCHOMUS Redtenbacher

11220 **E. marginipennis** Lec. "Ind. Jct." (NYS); **SI**, Je–Jl, Sep, usually on oak (L&D); **LI**: Pinelawn, Yaphank (Sf).

11226 **E. davisi** Lg. **LI**: Yaphank (Sf); Wyandanch, May (Ds).

SUBFAMILY EPILACHNINAE

EPILACHNA Chevrolat

11229 **E. borealis** Fab. Ithaca, Jl–Aug (CU); Peekskill, Sep (CU); West Pt. (Robn); White Plains, Sep 9 (Sq); **SI**, Ap–Aug (L&D); **LI**: Glen Cove, Dosoris, Bellport (Lint); Sea Cliff (CU); Orient, *Lath* (NYS).

FAMILY ALLECULIDAE

(*Cistelidae*)

SUBFAMILY ALLECULINAE

LOBOPODA Solier

11236 **L. punctulata** Melsh. Callicoon (AM); Bronx Pk. (Sf); **LI**: E. Patchogue, Yaphank, May–Sep, Central Pk. (Ds).

11239 **L. atra** Say. Newport, Je (Yg); Greenwood L. (Sf); **LI**: Jamaica, Je (NYS); Wading R., Jl (Ds); Yaphank, Je (Sf).

HYMENORUS Mulsant

11246 **H. niger** Melsh. Newport, Je (NYS); Cranberry L., Wanakena, Aug (Drk); Olcott, Aug (Blaisdell); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Jl, Allegany Pk., Aug (Flet,Dnd); Cincinnatus, Jl (Flet,Dnd); West Pt. (Robn); **SI** (L&D); **LI:** Jamaica (Sf).

11250 **H. melsheimeri** Csy. Minnewaska, Aug 25, *Nic* (Frost).

11251 **H. pilosus** Melsh. Catskills (Sf); West Pt., Je (Sf); Bronx Pk. (Sf); **SI,** Je–Aug (L&D); **LI:** Central Pk., Wading R., Yaphank, Jl–Sep (Ds).

11252 **H. difficilis** Csy. "NY" (Csy).

11253 **H. perforatus** Csy. NY (AM).

11255 **H. obscurus** Say. Buffalo (Z&R); Mosholu (Sf); **SI,** Je (L&D).

11267 **H. discretus** Csy. Mosholu (Sf).

11287 **H. punctatissimus** Lec. Buffalo (Z&R). Described from Ariz. and southern Calif.

PSEUDOCISTELA Crotch

11299 **P. brevis** Say. Mt. Whiteface, Jl (Ds); Buffalo (Z&R); Conesus L., Je (Ds); Ramapo, Je (Ds); West Pt., Je (Ds).

11301 **P. pinguis** Lec. Ramapo (Sf).

11303 **P. marginata** Ziegl. West Pt., May, Je, *Robn* (Sf).

ISOMIRA Mulsant

11306 **I. tenebrosa** Csy. Buffalo (Csy); Portage, Je (Ds); NYC (Csy).

11307 **I. sericea** Say. Newport, Je (Yg); L. Placid; Mt. Whiteface, Jl (Ds); E. Aurora, Jl, Allegany Pk., Aug (Flet,Dnd); Buffalo (Z&R); Pike (NYS); Ithaca, Jl–Aug (Dt); Taughannock Falls, Aug 11 (Vdyk); Albany, Jl (NYS); White Plains, Jl (Fall,Sq); West Pt. (Robn); Mosholu (Sf); **SI,** Je–Jl (L&D); **LI:** Yaphank, Jl (Sf); Jamaica, Mineola, Jl, *A. Wolf* (NYS); Flatbush (AM).

11311 **I. quadristriata** Couper. Axton, Je (M&H); Speculator, Je (NYS); Hope, Aug, *Bks* (NYS); L. Placid, Je (NYS); Long L., Aug (NYS); Newport, Je (NYS); Cranberry L., Je–Jl (H); Severance, Aug, *Bks* (NYS); Gloversville, Jl (NYS); Northampton, Je (NYS); Sodus, Jl (NYS); Olcott, Je–Jl (NYS); Buffalo (Z&R); Batavia, Je (Kngt); Pike, Jl (NYS): Rock City (Ds); Montour Falls, Je (H); Ithaca, Je–Jl (Dt); Windsor, Je (Not); Schoharie (Not); Albany, Jl (NYS); Corinth, Je (NYS); Karner, Jl (NYS); West Pt., Ft. Montgomery, Stony Pt. (Ds); Mosholu, Je (NYS); **SI,** Jl (L&D); **LI:** Flatbush (AM).

11314 **I. oblongula** Csy. Olcott, Je–Jl (NYS); Buffalo (Csy).

CHROMATIA LeConte

11319 **C. amoena** Say. Buffalo (Z&R).

CAPNOCHROA LeConte

11320 **C. fuliginosa** Melsh. Newport, Je (Yg); Buffalo (Z&R); North Branch, (Schaupp); Greenwood L. (Sf); West Pt., Je (Ds); Peekskill (Ds); **SI,** Je (L&D); **LI:** Yaphank, Je (Sf); Half Way Hollow Hills, Jl (Ds).

MYCETOCHARA Berthold

11321 **M. haldemani** Lec. Buffalo (Horn); West Pt. (Robn).

11322 **M. fraterna** Say. Cranberry L., Jl 2, from dying spruce (H); Buffalo (Z&R); Ithaca, Je (Dt); West Pt. (Robn); **SI**, Je (Ds); **LI**: Brooklyn, Je (Sf).

11324 **M. megalops** Csy. Northampton, Je (NYS); Batavia, Jl (Kngt); West Pt. (Robn).

11326 **M. tenuis** Lec. Newport, Je (Yg); Buffalo (Z&R); Schenectady, Jl (NYS); Albany, Feb (NYS).

11327 **M. foveata** Lec. Buffalo.

11329 **M. nigerrima** Csy. "NY" (Csy); Cranberry L., Jl 12 (H). Under dead bark of witch-hazel (Felt).

11330 **M. lecontei** Borchm. Rochester (Moore).

11331 **M. rufipes** Lec. Rochester (Moore); Ithaca, Jl (Dt).

11332 **M. marginata** Lec. "NY" (Lec).

11333 **M. binotata** Say. Newport (NYS); Cranberry L., Jl (Drk); Geneva, Jl (Cls); Buffalo (Z&R); Ithaca, Je (Dt); Schoharie (Not); West Pt. (Robn); **SI**, Je (L&D). Under poplar bark (Felt).

11336 **M. bicolor** Coup. Mt. Whiteface, Jl (Sf).

11337 **M. analis** Lec. West Pt. (Robn); Nyack, Je (Ds); Bronx Pk. (Sf); **SI**, Je 4, on seashore (L&D).

11338 **M. lugubris** Lec. Ithaca, Jl (Dt).

SUBFAMILY OMOPHLINAE

ANDRIMUS Casey

11353 **A. convergens** Csy. "NY" (Csy).

ANDROCHIRUS LeConte

11355 **A. erythropus** Kby. Cranberry L., Jl 21 (H); Ithaca, Jl (Dt); North Branch (Schaupp); West Pt. (Ds); Mosholu, Je (Sf); **SI** (L&D); **LI**: Half Way Hollow Hills (Ds).

FAMILY TENEBRIONIDAE

Compiled by F. C. FLETCHER

SUBFAMILY TENTYRIINAE

BOTHROTES Casey

11551 **B. arundinis** Lec. Buffalo (Z&R); West Pt. (Robn); **SI**, Sep (L&D).

SCHOENICUS LeConte

11591 **S. puberulus** Lec. E. Aurora, Allegany Pk., Je (Dnd); **LI**: Coram, Selden, Riverhead, Amagansett, Deep Pond, Wading R., Aug–Sep (Ds); Promised Land, Sep, *Eng* (Sf).

PHELLOPSIS LeConte

11671 **P. obcordata** Kby. Axton, Je, 1901 (M&H); Keene Val., Aug, *Diven* (Flet); White L., *Zab* (AM); Newport, Je (NYS); Cranberry L., Jl (Drk), Je (H); Buffalo (Z&R); Ithaca, May (Dt); E. Jewett, Ap (Ds); North Branch (Schaupp).

SUBFAMILY BLAPTINAE

BLAPS Fabricius

11922 **B. mucronata** Latr. NYC, *Dt* (Sf).

11923 **B. lethifera** Marsh. NYC, *Dt* (Sf).

SUBFAMILY PEDININAE

OPATRINUS Latreille

12187 **O. aciculatus** Lec. **SI,** May–Nov (L&D).

12188 **O. minimus** Beauv. Bangall, Sep, *Eng* (Sf); West Pt. (Robn); **SI,** Sep (L&D); **LI,** *Eng* (Sf).

BLAPSTINUS Latreille

12207 **B. metallicus** Fab. Cranberry L., Jl (H); Rochester (M&W); Buffalo (Z&R); Olcott, Ap–May, Aug (Dt); Ithaca, May (Flet); West Pt. (Robn); **SI,** May–Je (L&D); **LI:** Greenport, Aug, Promised Land, Je, *Eng* (Sf); Babylon, Jl (AM).

12208 **B. interruptus** Say. Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); Ithaca, Jl (Dt); Peekskill, Ap, *Schaupp* (Blais); **SI,** Je (L&D); **LI:** Babylon, Je (AM).

12227 **B. moestus** Melsh. Rochester (M&W); West Pt. (Robn); Peekskill, Ap, *Sherm* (Flet); **SI,** May, Sep (L&D); **LI:** Shinnecock Hills, Orient (Ds); Rockaway Beach, Ap, *Eng,* Queens, *Schott* (Sf).

SUBFAMILY OPATRINAE

AMMODONUS Mulsant and Rey

12275 **A. fossor** Lec. Rensselaer (Lec); **SI,** May, Sep (L&D); Tottenville, Je, *Ds* (Sf).

EPHALUS LeConte

12279 **E. latimanus** Lec. **LI:** Wading R., on shore, *Ols* (Ds); Amagansett, Aug, Promised Land, *Eng* (Sf); Rockaway Beach, *Dt* (Sf).

SUBFAMILY PHALERIINAE

PHALERIA Latreille

12286 **P. testacea** Say. **SI,** May–Aug (L&D); **LI:** Rockaway Beach, Je, Long Beach, May (Ds); Babylon, Coney I. (AM).

SUBFAMILY BOLITOPHAGINAE

BOLITOTHERUS Candeze

12295 **B. cornutus** Panz. Axton, Je (M&H); Keene Val., *Diven* (Flet); Wilmington, Aug (Ds); Cranberry L., Je–Jl (H); Newport, May (NYS); White L., *Zab,* Jl, abundant (AM); Rochester (M&W); Olcott, Je–Jl, Sep (Dt); Buffalo (Z&R); Pike, May (NYS); Batavia, Aug–Sep (Kngt); Ithaca, Ap–Je, Sep (Dt, Flet); McLean, May (Blais–CU); Michigan Hollow Swamp, May (Flet); North Branch (Schaupp); West Pt. (Robn); **SI** (L&D); **LI:** Rockaway Beach, Orient (Ds).

BOLITOPHAGUS Illiger

12296 **B. corticola** Say. Cranberry L., Jl (Drk); Buffalo (Z&R); Allegany Pk., Je (Dnd); Ithaca, Feb (Blais–CU); North Branch (Schaupp).

ELEATES Casey

12297 **E. depressus** Rand. Cranberry L., Jl (H); Rochester (M&W); North Branch (Schaupp).

SUBFAMILY RHIPIDANDRINAE

RHIPIDANDRUS LeConte

12301 **R. flabellicornis** Sturm. Mosholu (Sf).

SUBFAMILY DIAPERINAE

DIAPERIS Geoffroy

12305 **D. maculata** Oliv. Cranberry L., Jl (H); Newport, Je (NYS); Rochester (M&W); Batavia, Je–Jl (Kngt); Buffalo (Z&R); E. Aurora, Je–Aug (Dnd); Pike, May (NYS); Ithaca, May, Jl, Sep (Flet, Dt); Karner, Je (NYS); West Pt. (Robn); Mosholu (AM); NYC (AM); **SI,** Ap–Sep (L&D); **LI:** Yaphank, May, *Eng,* Wyandanch (Sf); Flatbush, Oakdale (AM).

HOPLOCEPHALA Castelnau and Brullé

12308 **H. viridipennis** Fab. Buffalo (Z&R); **SI,** Ap–May (L&D).

12309 **H. bicornis** Fab. Cranberry L., Jl (H); Syracuse (B&S); Rochester (M&W); Olcott, Mar, May, Oct, Dec (Dt); Batavia, Sep (Kngt): Buffalo (Z&R); Castile, *Brad* (Flet); Pike, May (NYS); Onondaga Co (H); Westfield, May (Not); Geneva, Nov (Blais–CU); Ithaca, May (Flet); Taughannock Falls, Oct (Blais–CU); Albany, Ap (NYS); West Pt. (Robn); **SI,** Feb–May (L&D); **LI:** Orient (Ds); Flatbush (AM).

SCAPHIDEMA Redtenbacher

12311 **S. aeneolum** Lec. Catskills, *Pears,* Oliverea, Jl, *Shoe* (Sf); West Pt. (Robn).

PLATYDEMA Castelnau and Brullé

12314 **P. excavatum** Say. Rochester (M&W); E. Aurora, Oct–Nov (Dnd); Buffalo (Z&R): Batavia, Aug (Kngt); Ithaca, Sep (Dt); Six Mile Cr., Ithaca, May (Flet); West Pt. (Robn); **SI**, Ap–May, Jl (L&D); **LI**: Hempstead Plains, Yaphank, May (Cf); Forest Pk., Mar, *Martin* (Sf).

12314a **P. excavatum** var. **parvulum** Csy. **LI**, type locality.

12318 **P. ruficorne** Sturm. Rochester (M&W); Buffalo (Z&R); E. Aurora, Aug (Dnd); Pike, May (NYS); Ithaca, Ap–May (Flet); West Pt. (Robn); **SI**, Ap–Je, Sep (L&D).

12321 **P. ellipticum** Fab. Rochester (M&W); **SI**, Ap, Jl (L&D); **LI**: Aqueduct, Flushing, Dec (Ds).

12323 **P. americanum** Cast. & Brll. Peru, Je (Blais–CU); Cranberry L., Jl (H); Rochester (M&W); Buffalo (Z&R); Protection, Je, *Dnd* (Flet); Ithaca, May, Sep, Nov (Flet, Dt); Selkirk, Ap (NYS); **SI**, Je (L&D).

12327 **P. picilabrum** Melsh. West Pt., May (Robn).

12328 **P. subcostatum** Cast. & Brll. Newport, Je (NYS); Rochester (M&W); Olcott, Sep–Oct (Dt); Buffalo (Z&R); E. Aurora, Aug, *Dnd* (Flet); Ithaca, Sep–Oct (Dt); Albany, Aug (NYS); West Pt. (Robn); **SI**, May, Jl (L&D); **LI**: Rockaway Beach, Yaphank, May, *Eng* (Sf); Flatbush (AM).

ALPHITOPHAGUS Stephens

12332 **A. bifasciatus** Say. Howard, Dec (Blais–CU).

PENTAPHYLLUS Latreille

12333 **P. pallidus** Lec. Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Catskills, May (NYS).

SUBFAMILY ULOMINAE

GNATHOCERUS Thunberg

12336 **G. cornutus** Fab. **SI** (L&D).

TRIBOLIUM MacLeay

12343 **T. ferrugineum** Fab. Buffalo (Z&R); Albany, Oct (Fab); **SI**, Ap, Sep–Oct (L&D).

12345 **T. confusum** Jacq. Duv. Rochester, Jan (Flet–CU); Castile, *Brad* (Flet); Ithaca, May, Sep, Nov (Flet); West Pt. (Robn); **SI** (L&D).

DIOEDUS LeConte

12346 **D. punctatus** Lec. Buffalo (Z&R); Ithaca, Mar (Blais); Ramapo (AM).

PALORUS Mulsant

12348 **P. depressus** Fab. **LI**: Brooklyn (Chitt); Astoria, Aug, *Felt* (NYS).

12349 **P. ratzeburgi** Wissm. NYC (Chitt); **LI**: Howard, Dec (Blais–CU).

ULOMA Castelnau

12353 **U. impressa** Melsh. Newport, May (NYS); Oswego, May (NYS); Rochester (M&W); Olcott, May (Dt); E. Aurora, May (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Ap–Je (Blais, Dt); McLean Bogs, Jl (Blais, Dt); L. George, White L., *Zab* (NYS); **SI,** Mar–Sep (L&D); **LI:** Jamaica, Pinelawn, Ap, Yaphank, May, *Eng* (Sf); Forest Pk., Mar, *Martin,* Shetland I., Jl, *Eng* (Sf).

12354 **U. imberbis** Lec. "NY to Kans." (Lec); West Pt. (Robn).

12357 **U. punctulata** Lec. Rochester (M&W); Ithaca, Jl (Dt); **LI:** Yaphank, May (Sf).

ALPHITOBIUS Stephens

12360 **A. diaperinus** Panz. NYC (Blais).

12361 **A. piceus** Oliv. "NY" (Oliv).

EUTOCHIA LeConte

12362 **E. picea** Melsh. Peekskill, *Sherm* (Blais–CU); Mosholu (Sf); **SI,** Ap (L&D).

HYPOPHLOEUS Fabricius

12372 **H. parallelus** Melsh. Cranberry L., Jl (H); Olcott, Dec (Dt); Buffalo (Z&R); **SI,** Mar (L&D); **LI:** Central Pk., Ap, *Eng* (Sf); Rockaway (AM).

12376 **H. tenuis** Lec. Cranberry L., Je–Jl (H).

12377 **H. thoracicus** Melsh. Buffalo (Z&R); **SI,** May (L&D).

SUBFAMILY TENEBRIONINAE

SCOTOBATES Horn

12386 **S. calcaratus** Fab. Essex Co, Aug (NYS); Peru, Je (Blais–CU); New Russia, Aug, *Bdy* (Blais); Malone, Oct (Blais–CU); White L., *Zab* (AM); Syracuse (B&S); North Fairhaven, Aug, *Babiy* (Flet); Honeoye Falls, Je (Ds); Rochester (M&W); Erie Co, Jl–Sep, Allegany Pk., Aug (Dnd); Buffalo (Z&R); Canandaigua L., Jl (NYS); Ellicottville, Aug (Ds); Ithaca, Jl–Sep (Dt, Vdyk); McLean Bogs, Aug, *Yuasa* (Vdyk); Saratoga Sps., Aug (Dt); Albany (NYS); Oliverea (Ds); West Pt. (Robn); **SI,** Je–Aug (L&D); **LI:** Cold Sp. Harb., Coram, Half Way Hollow Hills, Jl (Ds); Yaphank, Jl, Sep, *Eng* (Sf); Flatbush, *Zab* (AM).

MERINUS LeConte

12389 **M. laevis** Oliv. Buffalo (Z&R); Egleston's Glen, Keuka L., Je (Ds); Ithaca, Aug (Blais–CU); **LI:** Smithtown, Deep Pond, Wading R. (Ds); Yaphank, May, Jl, Sep, *Eng* (Sf, Ds).

XYLOPINUS LeConte

12390 **X. saperdioides** Oliv. Peru, Jl, *Mix&Everett* (Blais); Cranberry L., Jl (H); Syracuse (B&S); Rochester (M&W); Batavia, Jl (Kngt); Buffalo (Z&R); Pike, Je (NYS); Ithaca, May, Aug (Flet, Blais); Rensselaer, Jl (NYS); Pine I., Je (Ds); West Pt. (Robn); **LI:** Yaphank, Jl, *Eng* (Sf, Ds).

12390a **X. saperdioides** var. **rufipes** Say. Buffalo (Z&R); West Pt. (Robn); **LI:** Yaphank, Jl, *Eng* (Sf).

12391 **X. aenescens** Lec. Ithaca, Aug, Oct, *Reynolds* (Blais); Bronx Pk. (Sf); **SI,** Jl (L&D); **LI:** Yaphank, Jl (Ds).

HAPLANDRUS LeConte

12392 **H. fulvipes** Hbst. Rochester, Je, *Leon* (Flet, M&W); Olcott, Jl, Sep (Dt); Buffalo (Z&R); Ithaca, Je, Aug (Blais–CU); Peekskill, *Schaupp* (Blais); West Pt., Jl, *Eng* (Sf); Bronx Pk., Jl (Ds); **SI,** Je, Aug (L&D); **LI:** Babylon, Flatbush (AM).

12393 **H. ater** Lec. **LI:** Far Rockaway, Mar, *Dow* (Sf).

IPHTHIMUS Truqui

12405 **I. opacus** Lec. Saranac Inn, Jl, Newport, May (NYS); Mt. Whiteface, 2000–4000 ft., Aug (Dt); Wanakena, Aug (Drk); Cranberry L., Je–Jl (H); Rochester (M&W); Pike, May (NYS); Ithaca, Je (Flet); Windsor, Je (Not); Big Ind. Val., Sep, *Eng* (Ds); Karner, Jl (NYS).

ALOBATES Motschulsky

12407 **A. pennsylvanica** DeG. Chateaugay L., Sep (AM); Cranberry L., Je–Jl (H); Wells, Je, Nov, *Babiy* (Flet); Syracuse, Aug, Oct (Drk); Rochester (M&W); Buffalo (Z&R); Batavia, Je (Kngt); Erie Co, Je–Dec (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Summit, *Crouse* (Lint); Penn Yan, *Cy* (Blais); Coy Glen, May (Blais–CU); Ithaca, May, Jl (Dt); McLean, May (Blais–CU); Windsor, Je (Not); Saratoga Sps., Aug (Dt); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI,** Feb, Jl (L&D); **LI:** Pinelawn, Central Pk., Yaphank, Wyandanch, Amagansett, Half Way Hollow Hills, Mar–Je (Ds); Brooklyn, Oct, *Eng* (Sf); Flatbush (AM).

12408 **A. barbata** Knoch. Ithaca, Oct (Blais–CU); **LI:** Yaphank, May, Pinelawn, Ap, *Eng* (Sf).

UPIS Fabricius

12411 **U. ceramboides** L. Axton, Je (M&H); Peru, Jl, *Mix&Everett* (Blais); Wilmington, Aug (Ds); Cranberry L., Je–Jl (Drk, H); Mt. Whiteface, 4000–4872 ft., Aug (Dt); Saranac Inn, Je (NYS); Rochester (M&W); Buffalo (Z&R); Pike (NYS); Fulton, Ap, *Cy* (Blais); Karner, Mar, Jl (NYS); **LI:** Orient, May, *Lath* (Ds).

IDIOBATES Casey

12412 **I. castaneus** Knoch. Rochester (M&W); Buffalo (Z&R); Ithaca, Je (Dt); **LI:** Yaphank, May, Sep, *Eng* (Sf).

TENEBRIO Linnaeus

12413 **T. obscurus** Fab. Severance, Aug, Newport, May (NYS); Rochester (M&W); Buffalo (Z&R); Victory, Jl (NYS); Ithaca, Je (Blais–CU); Albany, Je, Ilion, May (NYS); Nyack (AM); **SI,** May–Je, Aug (L&D); **LI:** Yaphank, Jl (Ds); Brooklyn, Jl (Sf); Flatbush (AM).

12414 **T. molitor** L. Essex Co, Jl, Newport, Je (NYS); Peru, Jl, *Mix&Everett* (Blais); Keene Val., *Diven* (Flet); Rochester, Jl, *Leon* (Blais); Buffalo (Z&R); Otto (Blais–CU); Castile, Jl, *Brad* (Flet); Ithaca, Jl–Aug, *Dt* (Blais, Flet); Newark Val. (Lint); Albany, *Wadham* (Lint); Coeymans, *SmEB* (Lint); Mt. Vernon, May (NYS); **SI,** Je–Jl (L&D); **LI:** Orient, *Lath* (NYS); Flatbush, Je, *Eng* (Sf); Brooklyn, Oct, Rockaway Beach, May, *Eng* (Sf).

NEATUS LeConte

12415 **N. picipes** Hbst. (*Tenebrio*). Essex Co., Aug, Newport (NYS); Cranberry L., Je (H); Keene Val., *Diven* (Flet–CU); Peru, Je (Blais–CU); Oswego, May (NYS); Syracuse (B&S); Rochester (M&W); Olcott, May–Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Je, *Dnd* (Flet); Canandaigua, Aug (Blais–CU); Ithaca, Ap–Sep (Dt); Enfield Falls, Ap (Blais); Albany, Ilion, Karner, Mar (NYS); Catskills, Aug (NYS); West Pt. (Robn); **SI,** Ap, Jl (L&D); **LI:** Yaphank, Deep Pond, Long Pond at Wading R., Pennequid Barrens, Coram (Ds).

BOROS Herbst

12423 **B. unicolor** Say. Buffalo (Z&R); Ithaca, Mar (Dt); Ap 13 (Flet); Peekskill, *Sherm* (Flet–CU); **SI,** Ap, Nov (L&D); **LI:** Melville, Feb, *Schott* (Frost); Central Pk., Ap, *Eng,* Parkville (Sf).

SUBFAMILY HETEROTARSINAE

ANAEDUS Blanchard

12425 **A. brunneus** Ziegl. E. Aurora, May (Dnd); West Pt. (Robn); **SI,** Ap, Nov (L&D), *Sherm* (Flet–CU); **LI:** Selden, Aug (Ds); Yaphank, Sep, *Eng,* Forest Pk., Mar, *Martin* (Sf).

PRATEUS LeConte

12431 **P. fusculus** Lec. "NY" (Lec).

PARATENETUS Spinola

12432 **P. punctatus** Spin. Keene Val., Sep, *Eng* (Sf); Buffalo (Z&R); E. Aurora, Jl, *Dnd* (Flet); Ithaca, Je–Aug (Dt); Ft. Edward, Je (NYS); Kenwood, Je (NYS); West Pt. (Robn); **SI,** Je (L&D); **LI:** Yaphank, Sep, *Eng* (Sf).

12433 **P. fuscus** Lec. Peekskill, Ap, *Sherm* (Blais–CU).

SUBFAMILY HELOPINAE

TARPELA Bates

12446 **T. micans** Fab. Rochester (M&W); Buffalo (Z&R); Erie Co, May–Jl (Dnd); Ithaca, May (Flet–CU); West Pt. (Robn); Peekskill, *Schaupp, Sherm*; Sterlington, May, *Cy* (Flet–CU); **SI,** Ap–Jl (L&D); **LI:** Lynbrook, Je, *Cy* (Flet–CU); Orient, *Lath* (NYS); Wading R., Massapequa, Yaphank, Wyandanch, Central Pk. (Ds); Flatbush (AM).

12448 **T. venusta** Say. **SI,** Aug (L&D).

HELOPS Fabricius

12455 **H. gracilis** Bland. **LI:** Yaphank, Je–Jl, Rockaway Beach, May, *Eng* (Sf).

12469 **H. aereus** Germ. Peekskill (Schaupp); West Pt., Je (Ds); Bronxville, Je (NYS); **SI,** May–Je (L&D); **LI:** Central Pk., Massapequa, Half Way Hollow Hills, May–Jl (Ds); Flatbush (AM); E. New York, Pinelawn, May, *Eng* (Sf); Central Pk., Ap, *Eng* (Sf).

SUBFAMILY MERACANTHINAE

MERACANTHA Kirby

12485 **M. contracta** Beauv. Rochester (M&W); Olcott, Je–Jl (Dnd, Dt); Buffalo (Z&R); Lake Bluff, Ap, Je (CU); Aurora, Aug, *Foster* (Flet–CU); **SI,** Jl (L&D); **LI:** Parkville (AM); Jl, *Eng* (Sf).

SUBFAMILY STRONGYLIINAE

STRONGYLIUM Kirby

12489 **S. terminatum** Say. Ithaca, Jl (Flet).

12488 **S. tenuicolle** Say. Rochester, Jl, *Leon* (Blais–CU); Olcott, Je (Dt); E. Aurora, Je (Dnd); Ithaca, Jl, *Babiy* (Flet); West Pt. (Robn); **SI,** Je–Jl (L&D); **LI:** Je, *Eng* (Sf); Parkville (AM).

FAMILY LAGRIIDAE

ARTHROMACRA Kirby

12497 **A. aenea** Say. Speculator, Je, Wells, Je, Old Forge, L. Placid, Je (NYS); Saranac Inn, Je (NYS); Axton, Je (M&H); Cranberry L., Je–Jl (H); Olcott, Je–Jl (Dt); Buffalo (Z&R); Pike (NYS); Westfield, Je (NYS); Montour Falls, Je (H); Ithaca, Ringwood, McLean Bogs, Je–Jl (Vdyk); Windsor, Je (Not); Albany, Corinth, Lansingburg, North Chatham, Poughkeepsie, Je (NYS); West Pt. (Robn); Mosholu, Je (Sf); Huguenot, White L. (AM); West Pt., Jl (Sf); White Plains, Je (Sq); vic. NYC (AM); **SI,** May–Je (L&D).

STATIRA Serville

12502 **S. gagatina** Melsh. Mosholu (Sf); **SI,** Je–Jl (L&D); **LI:** Flatbush, Long Beach (AM).

FAMILY **MELANDRYIDAE**

TETRATOMA Fabricius

12519 **T. truncorum** Lec. Johnstown, Oct (NYS); Buffalo (ANSP).

ABSTRULIA Casey

12521 **A. tessellata** Melsh. Buffalo (Z&R); West Pt. (Robn); Mosholu (Sf); **SI,** Je (L&D).

PISENUS Casey

12525 **P. humeralis** Kby. Syracuse, Ap, bracket fungus (H); Olcott, Mar, Aug (Dt); Westfield, May (Not); Howland I., Nov (CU); Shokan, *Thompson* (Lg); West Pt. (Robn); **LI:** Bellport, Aug, *Nic* (Woodr).

PENTHE Newman

12527 **P. obliquata** Fab. Cranberry L., Je–Jl (H); Buffalo (Z&R); Olcott, May, Aug–Sep (Dt); Castile, *Brad* (Flet); Ithaca, May, Sep (Dt–CU); Schenectady, May, Aug–Sep (Dt); Peekskill, Jl (Sherm); West Pt. (Robn); Bronx Pk., Sep (NYS); Bronxville, Van Cort. Pk., Mar–Jl (Woodr); **SI,** Jan–Nov (L&D); **LI:** Flatbush, Ap, Oct (Sf, Woodr–AM); Jamaica, Bellport, *Nic* (Woodr); Parkville (Woodr–AM); Flushing, Dec, *Bell* (Ds); Melville, Sep, Yaphank, May–Je (Ds).

12528 **P. pimelia** Fab. Mayfield, May (NYS); Cranberry L., Je 23 (H); Syracuse, Ap–May, under bark (H); Olcott, Je, Sep (Dt); Buffalo (Z&R); Batavia, Jl (Kngt); Ithaca, Je–Sep (Dt); W. Hebron, Je (Lg); Ulster Co, *Nic* (Woodr); Van Cort. Pk. (Woodr); **LI:** Flatbush (Woodr–AM). Under beech bark (Felt).

SYNCHROA Newman

12529 **S. punctata** Newn. Ilion, May (NYS); Olcott, May–Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Cincinnatus, Ap (Flet,Dnd); Ithaca, Aug (CU); Trenton Falls (Newn); Albany, May (NYS); Catskills (Woodr); West Pt. (Robn); West Farms (Woodr–AM); **SI,** May–Aug (L&D); **LI:** Rockaway Beach, Je (Sf); Bellport, Jamaica, Jl, *Nic* (Woodr); Yaphank, Jl (Woodr). Larvae and pupae under maple bark in Je (Yg).

EUSTROPHINUS Seidlitz

12531 **E. bicolor** Fab. Johnstown (NYS); Olcott, Aug–Dec (Dt); Buffalo (Z&R); Pike (NYS); Batavia, Jl (Kngt); E. Aurora, May, Oct (Flet,Dnd); Ithaca, Aug–Dec (Dt); Van Cort. Pk., Ap (Woodr); **SI,** Ap–Sep (L&D); **LI:** Queens, May (Eng); Jamaica, May (Lg); Rockaway, Jl (Woodr). Under bark of linden (Felt); on the fungi *Pleurotus sapidus* and *Polyporus squamosus* in N.J. (Weiss).

12534 **E. confinis** Lec. West Pt. (Robn).

EUSTROPHUS Illiger

12535 **E. tomentosus** Say. Johnstown, Gloversville, May, Aug (NYS); Newport (NYS); Syracuse, May, under bark (H); Olcott, Je, Aug (Dt); E. Aurora, Je (Flet,Dnd); Batavia, Je–Jl (Kngt); Buffalo (Z&R); **SI**, May (L&D).

SYNSTROPHUS Seidlitz

12536 **S. repandus** Horn. Johnstown, Aug (NYS); Olcott, Je–Sep (Dt); E. Aurora, Aug (Flet,Dnd); Pike, Aug 15 (Frost); West Pt. (Robn).

HOLOSTROPHUS Horn

12537 **H. bifasciatus** Say. Newport (NYS); Buffalo (Z&R); West Pt. (Robn); Peekskill, Mar, Jl, *Joutel* (Woodr); White Plains, Mar (Sf); **SI**: Clove Val., May, *Bischoff* (L&D); **LI**: Wyandanch (Sf); Jamaica (Woodr); Forest Pk., Yaphank (Lg); Bellport, Je, *Nic* (Woodr).

HALLOMENUS Panzer

12540 **H. scapularis** Melsh. Buffalo (Z&R); Ithaca, Aug (Sf).

12541 **H. punctulatus** Lec. Ludlow, *Thompson* (Lg); **SI**, Jl (L&D).

12542 **H. serricornis** Lec. **LI**: Montauk Beach, Jl (Sf).

ORCHESIA Latreille

12546 **O. castanea** Melsh. Wilmington, Jl–Sep (Dt); Old Forge, Jl (CU); Olcott, Jl–Sep (Dt); Buffalo (Z&R); Pike, Sep (NYS); Ithaca, Sep (CU); Bolton, Aug, *Thompson* (Lg); Nassau, Sep (NYS); Callicoon, Mosholu (Woodr–AM); West Pt. (Robn); Shokan, *Thompson* (Lg); Bronxville, Je (Woodr); **SI**, Je–Jl, Nov (L&D); **LI**: Flatbush, Jamaica (Woodr); Yaphank, Sep (Sf). On birch fungus, also linden (Felt); on *Trametes suaveolens* on willow (Weiss); on hard fungus on beech (Lg).

12547 **O. gracilis** Melsh. Cranberry L., Je 23 (H); Buffalo (Z&R); **LI**: Orient Pt., Je (NYS). On birch fungus (Felt).

MICROSCAPHA LeConte

12548 **M. clavicornis** Lec. Mosholu (Sf); Bronxville, Jl (Woodr).

PROTHALPIA LeConte

12550 **P. undata** Lec. Cranberry L., Je, *H* (Dt); Buffalo (Z&R); Big Ind. Val., Jl, *Pears* (Woodr); West Pt. (Robn); Ramapo (Sf).

MELANDRYA Fabricius

12552 **M. striata** Say. Peru, Je (CU); Mt. Whiteface, Jl (Ds); Axton (M&H); Olcott, May–Jl (Dt); Pike, May (NYS); Batavia, Je (Kngt); Rock City, Je (CU); Ithaca, May (CU); Honeoye Falls, Je (Ds); McLean Bogs, May (CU); Windsor, Je (Not); Karner (NYS); Oliverea, Je (Ds); Peekskill (Sherm); West Pt., Ft. Montgomery, May–Je (Ds); Tarrytown, Jl (Woodr); Bronxville, May (Woodr); **SI**, May–Je (L&D); **LI**: Queens, Promised Land, Je (Sf).

EMMESA Newman

12553 **E. labiata** Say. Mt. Whiteface, Jl (Woodr); Ithaca, Je (Vdyk); Wordsworth (?), Jl (NYS); Oliverea, Jl (Woodr); West Pt. (Robn); **SI**, May–Je (L&D); **LI**: Valley Stream, May 16, *Schott* (Frost); Forest Pk., Je (Ds); Wading R., May, *Nic* (Woodr).

12554 **E. connectens** Newn. Mt. Whiteface (Woodr–AM), Je (Ds); Cranberry L., Je–Jl (H); Buffalo (Z&R); Big Ind. Val., Sep, *Pears* (Woodr); Debruce, Slide Mt., Jl (Sf); **LI**: Jamaica, Jl, *Nic* (Woodr).

AMBLYCTIS LeConte

12556 **A. praeses** Lec. Near Buffalo, type locality (Z&R); Cascade (Springville, Erie Co), Jl 12, *MCV* (Frost); Ithaca, Jl (Sf).

XYLITA Paykull

12557 **X. laevigata** Hellen. Mt. Whiteface, Jl, *Quirs* (Woodr); Mt. Seward, Je (M&H); Cranberry L., Jl (Dt).

ZILORA Mulsant

12560 **Z. canadensis** Hausen. Mt. Whiteface, Jl, *Shoe* (Lg); Slide Mt., Je (Lg).

RUSHIA Forel

12561 **R. longula** Lec. Buffalo (Z&R); E. Aurora, Jl, *Dnd* (Dt); **LI**: Wyandanch, Jl (Sf).

SPILOTUS LeConte

12564 **S. quadripustulatus** Melsh. Olcott, Je (Dt); Buffalo (Z&R); Rockland Co, Je, *Joutel* (Lg); Mosholu (Sf); **SI**, Je (L&D).

SCOTOCHROA LeConte

12565 **S. atra** Lec. Mt. Whiteface, Jl (Sf); Buffalo (ANSP).

ENCHODES LeConte

12567 **E. sericea** Hald. Cranberry L., Jl 19 (H); Buffalo (Hald); Ithaca, Je–Jl (Dt). On maple (Felt).

SERROPALPUS Hellenius

12568 **S. barbatus** Schall. Mt. Whiteface, Jl (Ds); Cranberry L., Je–Aug (H); Ithaca, Je (CU); Slide Mt., Jl (Sf); West Pt. (Robn). Enters wounds on living trees, common on blazed balsam, fir, and spruce (Felt).

MYSTAXUS Kugelann

12569 **M. simulator** Newn. Herkimer Co (Lg); Buffalo (Z&R); Pike (NYS); W. Hebron, Je (Lg); Trenton Falls (Newn); Big Ind. Val., May, *Pears* (Woodr); West Pt. (Robn); Peekskill (Sherm); Katonah (AM); **SI** (AM); **LI**: Jamaica (Woodr). In rotting beech and maple stumps (Felt).

DIRCAEA Fabricius

12570 **D. quadrimaculata** Say. Big Moose, Jl (NYS); Cranberry L., Je–Jl (H); Peru, Je (CU); Buffalo (Z&R); Batavia, Jl–Sep (Kngt); Ithaca, Jl (CU); Catskills (Woodr); Oliverea, Je (Ds); Florida, Aug, *FrostSW* (CU); West Pt. (Robn); **SI**, Je–Aug; reared from blue beech, Je (L&D); **LI**: Pinelawn, Aug (Ds); Yaphank, Jl (Ds,Sf). Under dead maple bark (Felt).

PHLOEOTRYA Stephens

12571 **P. vaudoueri** Muls. West Pt. (Robn); Nyack, Je (Joutel); Cos Cob (Rbts); Bronxville, Jl (Woodr); **LI**: Bellport, Je (Nic).

HYPULUS Paykull

12573 **H. concolor** Lec. West Pt. (Robn); Bronxville, Jl (Woodr).

MICROTONUS LeConte

12576 **M. sericans** Lec. Buffalo (ANSP); Ithaca, Jl (CU); **SI**, Je (L&D); **LI**: Farmingdale, Jl, *MorrowND* (CU).

SYMPHORA LeConte

12577 **S. flavicollis** Hald. Newport, Je (NYS); Cranberry L., Je 11 (H); Olcott, Je, Aug (Dt); Montour Falls, Je (H); Peekskill, Je (Sherm); Catskills (Woodr); Mosholu (Sf); **SI**, Je (L&D); **LI**: Jamaica (Woodr).

12578 **S. rugosa** Hald. Buffalo (Z&R); Catskills (Sf,Woodr); **SI** (L&D).

ANISOXYA Mulsant

12579 **A. glaucula** Lec. "NY" (Lg); Bronxville, Jl (Woodr); **LI**: Aqueduct, Jl, *Shoe* (Lg).

ALLOPODA LeConte

12580 **A. lutea** Hald. "NY" (Hald); Bronx Pk. (Dt); **LI**: Rockaway Beach (Woodr–AM).

SCRAPTIA Latreille

12583 **S. sericea** Melsh. Buffalo (Z&R); Peekskill (Sherm); Mosholu (Sf).

CANIFA LeConte

12585 **C. plagiata** Melsh. "NY" (Lg); **LI**: Wading R., May, *Nic* (Woodr).

12586 **C. pusilla** Hald. "NY" (Lg); Olcott, Je–Jl (Dt); Ithaca, Je–Jl (Dt); Bronxville, Jl (Woodr); **LI** (Woodr).

12587 **C. pallipennis** Lec. Ludlow, *Thompson* (Lg); **SI**, Je (L&D).

12588 **C. pallipes** Melsh. Cranberry L., Je–Jl (H); Ithaca, May–Je (CU); Windsor, Je (Not); Schoharie (Not); Middletown, Jl (CU); Ramapo, May (Ds); Ludlow, *Thompson* (Lg); Peekskill, *Thompson* (Lg); Catskills (Woodr); Mosholu (Sf); **SI**, Jl 7 (L&D); **LI**: Bellport, Aug, *Nic* (Woodr).

OSPHYA Illiger

12589 **O. varians** Lec. Olcott, Je (Dt); Buffalo (Z&R).

MYCTERUS Clairville

12594 **M. scaber** Hald. Gloversville, Aug (NYS); Ithaca, Jl–Aug (Dt); Karner, Je (NYS); Washington Co (Lg); Cairo, Jl (Lg).

12595 ?**M. concolor** Lec. Newport, Je (NYS); Oliverea, Je, three specimens doubtfully placed (Ds).

FAMILY PTINIDAE

GIBBIUM Scopoli

12600 **G. psylliodes** Czemp. NYC, in Produce Exchange, *Ds* (Joutel).

MEZIUM Curtis

12601 **M. americanum** Lap. NYC (Fall); "NYC", Aug, Dec (Sf).

TRIGONOGENIUS Solier

12604 **T. globulum** Sol. NYC (Ds).

PTINUS Linnaeus

12610 **P. villiger** Reit. "NY" (Fall); **LI:** Jamaica (Sf).

12612 **P. brunneus** Dufts. Axton, Je (M&H); Honeoye Falls, *F. Mather* (Rly); **SI** (L&D).

12613 **P. fur** L. WHITE-MARKED SPIDER-BEETLE. Buffalo (Z&R); Waterville, May, *I. M. Hawley* (Kngt); **SI,** Ap (L&D); **LI:** Rockaway, May, Yaphank (Sf); Orient, *Lath* (NYS).

12625 **P. bimaculatus** Melsh. "NY" (Fall).

12629 **P. quadrimaculatus** Melsh. Middleville, Jan, in green calfskins (Lint).

FAMILY ANOBIIDAE [49]

SUBFAMILY ANOBIINAE

EUCRADA LeConte

12639 **E. humeralis** Melsh. Newport (NYS); Cranberry L., Jl (Drk); Wells, Jl (NYS); Buffalo (Z&R); Batavia, Je (Kngt); McLean, May (CU); Greenwood L., Je (Sf); West Pt. (Robn); Ft. Montgomery, May (Ds); Peekskill, Je (CU); Bronx, Je (Lg); **SI,** May, on dead oak (L&D); **LI:** Westbury (Champlain). On beech.

XESTOBIUM Motschulsky

12641 **X. rufovillosum** DeG. Cranberry L., Jl (H); NYC (Palm). On black spruce (Felt).

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[49] The manuscript for this family has been checked by H. C. Fall.

ERNOBIUS Thomson

12649 **E. mollis** L. Windsor, Je (Not); Karner, May (NYS); Albany, Je (NYS); Nassau, Je (NYS); NYC vic. (Lg). On hard pine (Felt).

[12664 *E. filicornis* Lec. Coast region from Mass. to Va. (Fall).]

12665 **E. granulatus** Lec. West Pt. (Robn). On pine (Felt).

[12667 *E. luteipennis* Lec. Coast region from Mass. to Va. (Fall). On pine (Felt).]

12668 **E. tenuicornis** Lec. Mass. to Pa.; Karner, May (NYS). On pine (Felt).

OLIGOMERUS Redtenbacher

12684 **O. sericans** Melsh. NY (Fall); **SI**, Aug 6 (L&D).

12686 **O. obtusus** Lec. Buffalo (Fall); Albany (Fall); Catskills, Je, *Pears* (Nic); **SI** (Fall); **LI** (Fall).

12688 **O. alternans** Lec. **LI**: Mastic, Je, as *alternatus* (Nic).

SITODREPA Thomson

12689 **S. panicea** L. DRUG-STORE BEETLE. Castile, *Brad* (Flet); Geneva, Jl (NYS); Buffalo (Z&R); Albany, May, Je (NYS); Valley Falls, May (NYS); Chatham, Je, *Branion* (NYS); Van Cort. Pk., Sep (Joutel); NYC, in red pepper (Lutz); **SI** (L&D); **LI**: Brooklyn (Sf). A few years ago this species became so numerous in a storage warehouse in NYC that thousands were swept from the pavement in front of the store (Lg).

TRICHODESMA LeConte

12695 **T. gibbosa** Say. Syracuse (B&S); Buffalo (Z&R); Pine I., Je, on hickory (Ds); Mosholu (Sf); Van Cort. Pk., *Pears* (Nic); **SI** (L&D). On elm (Felt).

HADROBREGMUS Thomson

12705 **H. carinatus** Say. Newport, Je (NYS); Cranberry L., Je 23 (H); Spencerport, Dec 5 (Vdyk); Buffalo (Z&R); Avon, Je 19 (Cls); Ithaca (Palm); Schoharie (Not); Albany, Jl (NYS); Nassau, Jl (NYS); Oliverea, Jl (Sf); West Pt. (Robn); Ludlow, Je (Thompson); **SI** (L&D); **LI**: Bellport, Je (Nic). On hickory (Felt).

12706 **H. linearis** Lec. Buffalo (Z&R); Peekskill (Sherm); West Pt. (Robn).

12707 **H. pusillus** Fall. Cranberry L., Jl, maple (H); Ithaca (Fall).

12709 **H. umbrosus** Fall. "NY" (Fall).

COELOSTETHUS LeConte

12712 **C. notatus** Say. Buffalo (Z&R); Ithaca (Lg); West Pt. (Robn); **LI**: Yaphank, Je (Sf). On oak (Felt).

TRYPOPITYS Redtenbacher

12717 **T. sericeus** Say. Newport, Je (NYS); Buffalo (Z&R); Cattaraugus Co, Jl (Ds); Ithaca, not rare at light (*Fbs*); Albany, Aug (NYS); Nassau, Jl (NYS); Ludlow (Thompson); NYC and vic. (Palm); Bronx Pk. (Sf); **SI** (L&D); **LI**: Greenport, Aug (Sf).

XYLETINUS Latreille

12734 **X. peltatus** Harr. Nassau, Jl (NYS); Catskills, Je, *Pears* (Nic); Bronx (Joutel).
12735 **X. harrisi** Fall. NY (Fall); Van Cort. Pk., Aug (Sf).
12736 **X. fucatus** Lec. Buffalo (Rein).
12738 **X. lugubris** Lec. West Pt. (Robn); NYC vic. (Blanchard).

LASIODERMA Stephens

12742 **L. serricorne** Fab. NY (Fall); Castile, *Brad* (Flet); Elmira, on tobacco (CU Econ); Albany, Jan (NYS); Middletown, on tobacco (CU Econ); NYC, on cigars (Cy); **SI,** in stored paprika (L&D); **LI,** Feb (Sf).
12743 **L. falli** Pic. Peekskill, *Sherm* (Fall).

PETALIUM LeConte

12752 **P. seriatum** Fall. **SI** (Fall).
12754 **P. bistriatum** Say. **LI**: Aqueduct, Jl (Sf).

EUPACTUS LeConte

12761 **E. nitidus** Lec. Catskills, Je (Sf); Peekskill, *Sherm* (Lg).

CATORAMA Guérin–Ménéville

12786 **C. dichroum** Fall. Greenwood L., Je (Sf).
12802 **C. vexatum** Fall. NY (Fall).
12804 **C. grave** Lec. Buffalo (Z&R); NYC (Rbts); **SI,** Je 26 (L&D); **LI** (Fall).

PROTHECA LeConte

12837 **P. hispida** Lec. NY (Lec).
12838 **P. puberula** Lec. Keene Valley, Je (Not); Buffalo (Z&R).

DORCATOMA Herbst

12839 **D. dresdensis** Hbst. Cranberry L., Je–Jl (H); Valley Falls, May (NYS).
12841 **D. setulosum** Lec. Newport, Je (NYS); Ithaca, Je (NYS). In woody fungus on birch (Felt).

EUTYLISTUS Fall

12843 **E. intermedius** Lec. Valley Falls, May (NYS).
12845 **E. tristriatus** Lec. "NY"? (Chitt, Fall).

CAENOCARA Thomson

12852 **C. scymnoides** Lec. Nassau, May (NYS); Poughkeepsie, Je (NYS).
12855 **C. oculata** Say. Cranberry L., Je 9, from Betula (H); Newport (NYS); Buffalo (Z&R); Ithaca (Lg); West Pt. (Robn); **SI,** May, Aug, Nov (L&D).

PTILINUS Geoffroy

12864 **P. ruficornis** Say. Saranac Inn, injuring birch and maple floors (Felt); Newport, Je (NYS); Cranberry L., Je–Jl, common in seaweed and dead beech (H); Northampton, Je (NYS); Clay, in timbers, Jl (CU); Buffalo (Z&R); Westfield, Je (NYS); West Pt. (Robn); NYC (Palm). Beech, maple, cherry, and ironwood (Felt).

FAMILY BOSTRICHIDAE

ENDECATOMUS Mellie

12870 **E. reticulatus** Hbst. West Pt. (Robn); **SI,** in *Polyporus gilvus* (L&D).

12871 **E. rugosus** Rand. Newport, Je (NYS); Johnstown, Aug (NYS); Buffalo (Z&R); Karner, Mar (NYS); vic. NYC (AM); **LI:** Flatbush, Nov (Sf).

SCOBICIA Lesne

12873 **S. bidentata** Horn. West Pt. (Robn); **SI,** Je (L&D); **LI:** Jamaica, Je *Pears* (Nic); Long Island City, Aug, *Sz* (NYS); Flatbush, Pinelawn, Je (Sf).

XYLOBIOPS Casey

12877 **X. basillare** Say. Syracuse, in hickory (Rhoades); Albany, Je (NYS); West Pt., Je, beating scrub pine (Robn); Bronx Pk. (Sf); **LI:** Rockaway Beach, Je (Sf); Long Beach, May (Sf). Makes short curved galleries in the branches of deciduous trees (Felt).

AMPHICERUS LeConte

12888 **A. bicaudatus** Say. APPLE TWIG-BORER. Buffalo (Z&R); **LI:** Long Beach, Je (Sf).

LICHENOPHANES Lesne

12900 **L. truncaticollis** Lec. Syracuse, in hickory (Rhoades); Buffalo (Z&R).

BOSTRICHUS Geoffroy

12902 **B. bicornis** Web. Syracuse, in hickory (Rhoades); Buffalo (Z&R); Peekskill (CU); Mosholu (Sf); **SI,** Je 26 (L&D); **LI:** Rockaway Beach, Je (Ds); Yaphank, Je (Sf). On oak, elm, and apple (Felt).

12903 **B. angustus** Csy. "NY" (Sf).

STEPHANOPACHYS Waterhouse

12908 **S. substriatus** Payk. Albany, Je (NYS).

12913 **S. rugosus** Oliv. Axton, Je (M&H); Buffalo (Z&R); West Pt. (Robn); **SI,** May (L&D); **LI:** Cold Sp. Harb. (Sf).

12915 **S. hispidulus** Csy. **LI:** Long Beach, May (Sf).

12916 **S. densus** Lec. NY (Lec); **LI:** Wyandanch, May (Sf).

12918 **S. cribratus** Lec. **LI:** Central Pk., Ap, about cut pine (Eng); Orient Pt., May, *Lath* (NYS); Coney I., May, Long Beach, Je (Sf).

12919 **S. punctatus** Say. Sterling L., May (Sf); West Pt. (Robn); Peekskill, vic. NYC (AM); **LI:** Wyandanch (Sf); Central Pk., Je (Sf).

RHIZOPERTHA Stephens

12921 **R. dominica** Fab. Karner, Je (NYS).

FAMILY **LYCTIDAE**

LYCTUS Fabricius

(*Trogoxylon* LeConte)

12932 **L. punctatus** Lec. "NY", Jl (Lec).

12934 **L. parallelopipedus** Melsh. Buffalo, Oct, in black walnut lumber (Felt); **LI** (Hopk).

12938 **L. opaculus** Lec. Westfield, Je (NYS); Pine I. and West Pt., Je (Ds); Mosholu (Sf); **SI**, Je (Hopk); **LI**: Jamaica, May (NYS); Rockaway Beach, Je (Sf).

12940 **L. planicollis** Lec. Hudson, May, destroying shovel handles (Cy); **SI**, boring in maple in Mus. SI Inst. Arts and Sci., adult emerged Ap (L&D).

12943 **L. linearis** Goeze. Hudson, May, Grahamville, Je (NYS); Lowville, in stored wood (Ds); West Pt. (Robn).

MINTHEA Pascoe

12945 **M. stichothrix** Reit. "NY" (Kraus-Horn Coll.).

FAMILY **SPHINDIDAE**

SPHINDUS Chevrolat

12949 **S. americanus** Lec. Buffalo (Z&R); Ithaca, Aug 25 (*Fbs*–CU); **SI**, Je (L&D).

FAMILY **CISIDAE**

SUBFAMILY **CISINAE**

CIS Latreille

12960 **C. falli** Blatch. **SI**, Oct 8, under bark of dead tree (L&D).

12966 **C. julichi** Dury. NYC (Dury), type locality.

12972 **C. fuscipes** Mell. Newport, Je (NYS); Cranberry L., Je, in *Polyporus lucidus* (H); Syracuse, in hickory (B&S); Buffalo (Z&R); Westfield, May (Not); Glen (Lint), as *fulvipes* (Mell); Albany, Ap (NYS); West Pt. (Robn); **SI**, Sep (L&D); **LI**: Jamaica (Pears).

12974 **C. pistoria** Csy. Cranberry L., Je 25, in decaying fungi (H).

12979 **C. creberrima** Mell. Buffalo (Z&R); Syracuse, from dead hickory (B&S); West Pt. (Robn); Mosholu (Sf).

12981 ?**C. horridula** Csy. Albany, Ap (NYS).

12988 **C. curtula** Csy. "NY" (Csy), type locality; West Pt., Ap (Robn).

ORTHOCIS Casey

12992 **O. punctata** Mell. Schoharie (Not); Bronx Pk. (Sf); **SI**, Mar, from dead grapevine (L&D).

XESTOCIS Casey

12997 **X. levetti** Csy. Newport, Jl (NYS); Cranberry L., Je–Jl, in fungus (H); Syracuse, May, in bracket fungus (H); Castile, *Brad* (Flet); Westfield, May (Not); Mosholu (Sf); vic. NYC (AM); **SI,** May, from fungus (L&D).

12998 **X. davisi** Dury. **SI,** type locality (L&D).

BRACHYCIS Casey

13009 **B. brevicollis** Csy. Ithaca (Csy), type locality. In the fungus *Pleurotus ostreatus* in N. J. (Weiss).

PLESIOCIS Casey

13010 **P. cribrum** Csy. Albany, Aug (Frost). Described from southern Calif.

SULCACIS Dury

[13011 *S. lengi* Dury. Found in Bennington Co, Vt., and Mercer Co, N. J., and sure to occur in NY.]

ENNEARTHRON Mellie

13018 **E. thoracicorne** Ziegl. Ithaca, Nov (NYS); Nassau, May, Schaghticoke, Aug (NYS); West Pt. (Robn); Mosholu (Sf); vic. NYC (AM); **SI,** Je, Aug, from *Polyporus versicolor* (L&D); **LI:** Little Neck, Mar (Schott); Orient, Mar (Ds).

CERACIS Mellie

13030 **C. sallei** Mell. Valley Falls, Ap (NYS); West Pt. (Robn); Mosholu (Sf); **SI,** Aug (L&D). According to Weiss, this species breeds in the fungus *Fomes applanatus.*

SUBFAMILY OROPHIINAE

OCTOTEMNUS Mellie

13037 **O. laevis** Csy. Syracuse (B&S); Catskills, Je, *Pears* (Nic); Bronx Pk. (Sf); "NY", type locality.

FAMILY SCARABEIDAE

SUBFAMILY COPRINAE

CANTHON Hoffmansegg

13047 **C. vigilans** Lec. **LI** (Jn).

13048 **C. laevis** Drury. Buffalo (Z&R); Albany, Je (Lint); West Pt. (Robn); Bronx Pk. (Sf); **SI,** formerly common, Aug 19, 1903 (Woodr), also 1910 and 1914 (L&D); **LI:** Flatbush, Sep (Eng).

13052 **C. viridis** Beauv. West Pt., Je (Sf); **SI,** Aug 7 (L&D); **LI:** Yaphank, Jl 7 (Ds).

CHOERIDIUM Geoffroy

13057 **C. histeroides** Web. Buffalo (Z&R); **SI,** Je, on dead fish (L&D); **LI:** Yaphank, Jl (Ds).

PINOTUS Erichson

13059 **P. carolinus** L. West Pt. (Robn); **SI,** Je (L&D); **LI:** Bellport, Aug (Nic); Riverhead (Ds).

COPRIS Geoffroy

13062 **C. minutus** Drury. Buffalo (Z&R); West Pt. (Robn); **SI,** Ap, Sep (L&D); **LI:** Amagansett, Sep (Eng); Wyandanch, May (Sf); Orient, *Lath* (NYS).

13065 **C. tullius** Oliv. (*anaglypticus* Say). Adirondacks (Felt); Hope, Aug (NYS); Gloversville, May, Oswego, Je (NYS); Pike, Sep (NYS); E. Aurora, May, Sep, common in burrows beneath manure, also at light (Dnd); Buffalo (Z&R); Ithaca, Je–Aug (Dt); West Pt. (Robn); **SI,** May–Sep (L&D); **LI:** Orient Pt., Je (Ds); Brooklyn, May (Eng).

PHANAEUS MacLeay

13072 **P. carnifex** L. West Pt. (Robn); Oscawana Hgts., Putnam Co, May (Flet); Bronx Pk. (Sf); **SI,** Je–Sep (L&D); **LI:** Bellport (Nic); Montauk, Sep (Ds, Ang).

ONTHOPHAGUS Latreille

13080 **O. hecate** Panz. Axton, Je (M&H); Cranberry L., Jl 24 (H); Potsdam (Houghton); Buffalo (Z&R); E. Aurora, Aug–Sep, scarce (Dnd); West Pt, May (Not); Ithaca, May–Aug (CU); Ringwood, McLean, May–Jl; Windsor, Je (Not); Debruce, Sep (Ds); West Pt., Je (Robn); White L. (AM); **SI,** May–Aug (L&D); **LI:** Wyandanch, May, Yaphank (Sf); Orient, Je (Ds).

13082 **O. orpheus** Panz. West Pt., Je, *Robn* (Ds).

13084 **O. janus** Panz. Buffalo (Z&R); Ithaca, Jl–Aug (Vdyk–CU); West Pt., Je (Robn); White Plains (Sq); **SI,** Jl–Aug (L&D); **LI:** Yaphank, Jl (Eng); Wading R. (Sf); Flatbush (AM); Orient, *Lath* (NYS).

13084a **O. janus** var. **striatulus** Beauv. **SI,** Jl–Sep (L&D); **LI:** Wyandanch (Sf); Flatbush, *Zab* (AM).

13086 **O. pennsylvanicus** Harold. E. Aurora, Boston, Je, Aug, scarce (Dnd); Windsor, Je (Not); West Pt. (AM); **SI,** Aug (L&D); **LI:** Wyandanch, May (Sf); Flatbush, *Zab* (AM).

13087 **O. cribricollis** Horn. **LI:** Yaphank (Sf).

13088 **O. nuchicornis** L. Cranberry L., Je–Jl (H); **LI:** E. New York, May (Shoe); Rockaway Beach, May (Ds); New Lots, May (Shoe).

13090 **O. tuberculifrons** Harold. **LI:** Wyandanch (Sf); Greenport, Aug (Eng).

—— **O. ovatus** L. "NY" (Fitch); Buffalo (ANSP). A common European species which may have been introduced.

AEGIALIA Latreille

13102 **A. conferta** Horn. Rochester (Moore).

SUBFAMILY APHODIINAE

APHODIUS Illiger

13107 **A. fossor** L. Axton, Je (M&H); Cranberry L., Je 30 (H); Syracuse (H); Olcott, May–Sep (Dt); Castile, May, *Brad* (Flet); Ithaca, May–Jl (Vdyk, Dt); McLean, May–Sep (Dt); Windsor, Je (Not); E. Jewett, Aug (Ds); Peekskill, May–Je (Sherm); West Pt. (Robn); Katonah (Sherm, Dt, CU); West Pt., Jl (Eng); **SI,** Je (L&D); **LI:** Rockaway Beach, May (Ds); Long Beach, Je (Eng); Wyandanch, May (Sf).

13110 **A. erraticus** L. Wilmington, Jl (Shoe); Cranberry L., Je (H); Syracuse, May (H).

13111 **A. haemorrhoidalis** L. Cranberry L., Jl 3 (H); **LI:** Wading R., Je (Sf, Schott); Huntington, Je (Schott).

13119 **A. fimetarius** L. Keene Val. (Lint); L. Pleasant, Jl (Lint); Potsdam (Houghton); Cranberry L., Jl (Drk); Syracuse, Ap–May (H); Buffalo (Z&R); Batavia, Jl–Sep (Kngt); Westfield, May (Not); Castile, *Brad* (Flet); Geneva, May (Lint); Ithaca, Ap–Oct, McLean Bogs, Aug (CU); Windsor, Je (Not); Bangall, Sep (Eng); West Pt. (Robn); Nyack (AM); White Plains, Ap (Sq); **SI,** Ap–Jl (L&D); **LI:** Jamaica, Flatbush (AM); Orient, *Lath* (NYS).

13123 **A. putridus** Hbst. Syracuse, May, on cattle dung (H); E. Aurora, Jl, Sep, scarce (Dnd).

13127 **A. ruricola** Melsh. Axton, Je (M&H); Potsdam (Houghton); Olcott, Je, Aug (Dt); Westfield, May (Not); Cortland Co, Jl, rare (Dnd); Ithaca, Je–Aug (Dt–CU); McLean (Dt); Schoharie (Not); West Pt. (Robn); **SI** (L&D); **LI,** Jl (Eng).

13131 **A. granarius** L. Honeoye Falls, Je (Ds); Rochester Jct., Je, *Leon* (Dt–CU); Westfield, May (Not); Batavia, Je (Ds); Erie Co, May–Jl, common (Dnd); Castile, May, *Brad* (Flet); Ithaca, Taughannock Falls, Mar–Je (Dt–CU); Schoharie (Not); West Pt. (AM); Nyack (AM); Ramapo, Je (Ds); NYC, Feb (Dt–CU); **SI,** Mar–Aug (L&D); **LI:** Flatbush (AM); Hempstead Plains, Ap (Eng); Central Pk., Yaphank, Ap (Eng); Orient, *Lath* (NYS).

13132 **A. vittatus** Say. Batavia, Jl (Kngt); E. Aurora, May, Jl, common (Dnd); Ithaca, May, Jl (Dt–CU); **SI** (L&D); **LI:** Long Beach, May (Eng).

13147 **A. lutulentus** Hald. "NY" (Hald–ANSP).

13159 **A. rubeolus** Beauv. New City, Jl, *Carn* (Frost); **SI,** Je (L&D).

13162 **A. stercorosus** Melsh. Syracuse, May, on cattle dung (H); E. Aurora, Jl–Sep, frequent, Sep (Dnd); Peekskill, Jl, at light (Sherm); West Pt. (Robn); Ramapo, Je (Ds); **SI,** Je (L&D).

13170 **A. consentaneus** Lec. Cortland Co, Jl, one (Dnd).

13173 **A. phaleroides** Horn. **LI:** Coney I. (Horn); Bellport, Jl (Nic); Rockaway (AM).

13180 **A. bicolor** Say. Olcott, Oct (Dt); Buffalo (Z&R); E. Aurora, Aug–Sep, common (Dnd); Castile, May, *Brad* (Flet).

13182 **A. serval** Say. "NY" (Fitch).

13184 **A. distinctus** Müll. Potsdam (Houghton); Syracuse, May, on horse dung (H); Olcott, Mar–Ap, Oct (Dt); Buffalo (Z&R); E. Aurora, Oct, common (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap–May (Dt–CU); Spencer, Mar–Ap, Oct (Dt); West Pt. (AM); **SI,** Ap, Oct,

found once in a dead blacksnake (L&D); **LI**: Rockaway Beach, Ap (Eng); Yaphank, May (Eng); Forest Pk., Mar (Martin); Orient, *Lath* (NYS).

13186 **A. leopardus** Horn. E. Aurora, Sep (Dnd); Ithaca, Ap (Dt–CU); West Pt., Sep (Robn).

13189 **A. terminalis** Say. **SI** (Sf).

13192 **A. rufipes** L. E. Aurora, under manure, Jl (Dnd); Ithaca, Jl, *Yuasa* (Vdyk).

13193 **A. depressus** Kug. "NY" (Horn); Cranberry L., Je 17 (H).

13198 **A. rubripennis** Horn. Wilmington, Aug (Dt); Rock City, Je (Dt–CU); Slide Mt. (Shoe).

13201 **A. femoralis** Say. Syracuse, Oct (Drk); Buffalo (Z&R); Westfield, May (Not); West Pt. (Robn).

13202 **A. prodromus** Brahm. Axton, Je (M&H); Potsdam (Houghton); Syracuse, Ap 9, very abundant (H); Westfield, May (Not); Ithaca, Ap–May (Dt–CU).

13204 **A. oblongus** Say. Ithaca, Ap 23, 1882 (Dt–CU).

OXYOMUS Castelnau

13210 **O. silvestris** Scop. (*porcatus* Fab.). Peekskill, Ap (Sherm); West Pt. (Robn); White Plains, Mar (Sq); vic. NYC (AM); **SI**, Ap–May, Dec (L&D); **LI**: Flatbush, Je–Jl (Nic).

ATAENIUS Harold

13216 **A. abditus** Hald. Westfield, May (Not).

13220 **A. imbricatus** Melsh. Bronx Pk. (Sf); **SI** (L&D).

13226 **A. gracilis** Melsh. Buffalo (Z&R); E. Aurora, Oct, rare (Dnd); **LI**: Jamaica, May, *Pears* (Nic).

13231 **A. strigatus** Say. Windsor, Je (Not); "NY" (Fitch), as *Aphodius*. Probably belongs here (Fall).

13232 **A. stercorator** Fab. Buffalo (Z&R); Westfield, May (Not); vic. NYC (AM).

13233 **A. cognatus** Lec. Potsdam (Houghton); Olcott, Ap–Sep (Dt); Syracuse, May (H); Ithaca, Ap–Sep (Dt); Peekskill, May (Fall); West Pt. (Robn); **SI** (L&D); **LI**: Flatbush (Sf).

DIALYTES Harold

13237 **D. truncatus** Melsh. **LI**, Aug (Schott).

13239 **D. striatulus** Say. E. Aurora, Sep, one beneath dung (Dnd); Ithaca, Oct (Dt–CU); Windsor, Je (Not).

PSAMMOBIUS Heer

13240 **P. cruentus** Harold. "NY"? (Horn–ANSP).

13242 **P. aegialioides** Hald. "NY" (Hald–ANSP).

RHYSSEMUS Mulsant

13251 **R. scaber** Hald. Peekskill, May (Sherm); **LI**: Rockaway Beach (Schott).

PLEUROPHORUS Mulsant

13255 **P. caesus** Creutz. "NY" (Fall); Olcott, Je, Oct–Nov (Dt).

13256 **P. parvulus** Chev. **LI:** Jamaica (Ds), as *nanus* DeG.

SUBFAMILY GEOTRUPINAE

ODONTAEUS Klug

13285 **O. corniger** Melsh. Buffalo (Z&R); Catskills, Je (Nic); Ft. Montgomery, Jl (Schott); **SI** (L&D); **LI:** Bellport, Je (Nic); Yaphank, Jl (Ds); Amagansett, Oct (Eng).

13286 **O. filicornis** Say. Cranberry L., Je (H); Indian Falls, Jl, always at light, scarce (Dnd); Windsor, Je (Not); **LI** (Jn).

13287 **O. obesus** Lec. Jay, Jl, *Britton* (Frost); Ithaca, May (Kngt). Fall questions these records, since this is a California species.

BOLBOCEROSOMA Schaeffer

13288 **B. farctum** Fab. **SI,** May 6, Jl 14 (L&D); **LI:** Forest Pk., Aug (Eng).

13288a **B. farctum** var. **tumefactum** Beauv. "NY" (Sf).

EUCANTHUS Westwood

13289 **E. lazarus** Fab. Peekskill, Jl (Sherm); West Pt. (Robn); **SI** (L&D); **LI:** Rockaway, Je (Eng); Far Rockaway (Jn).

GEOTRUPES Latreille

13290 **G. balyi** Jek. Cranberry L., Jl (H); Ithaca, Sep (CU); Ringwood, May–Sep (Dt); Catskills, Aug, *Pears* (Nic); Yankee L., Wirtsboro, Sullivan Co, Sep (Ds); Carmel, Aug (Sf); Brant L., Aug (Doll); West Pt. (Robn); **LI:** Yaphank, Jl, Oct (Ds); Melville, Oct (Schott).

13291 **G. horni** Blanch. West Pt. (Robn); **SI** (L&D); **LI:** Deep Pond, Wading R., Aug (Ds); Wyandanch, Aug (Schott); Yaphank, Oct (Eng).

13293 **G. blackburni** Fab. Buffalo (Z&R); Sullivan Co, Sep (Ds); Bronx Pk., Ap (Shoe); **SI,** Aug, Oct (L&D); **LI:** Brooklyn (Jn).

13294 **G. egeriei** Germ. Adirondacks (Felt): Buffalo (Z&R); **SI,** May, Aug–Sep (L&D); **LI:** Flatbush, Aug, Yaphank, Oct (Eng).

13298 **G. semiopacus** Jek. Buffalo (Z&R); E. Aurora, Aug–Sep (Dnd); Ithaca, Sep (Dt); Debruce, Sep (Ds); West Pt (Robn).

13299 **G. splendidus** Fab. Buffalo (Z&R); Ithaca, Aug (Dt); Windsor, Je (Not); Peekskill, in fungus (Sherm); Catskills, Aug (Ds); Pine I., Je (Ds); West Pt., Je (Ds, Sf); **SI,** May–Oct (L&D); **LI:** Amagansett, Sep, Yaphank, Oct (Ds); Wyandanch, Jl (Schott).

13267 *Ochodaeus biarmatus* Lec. (Subfamily Ochodaeinae.) Buffalo (Z&R). This is probably a misdetermination, as the range is from Kansas to Arizona (Fall).

SUBFAMILY GLAPHYRINAE

AMPHICOMA Latreille

13313 **A. lupina** Lec. **SI,** Sep (Sf, L&D); **LI:** Rockaway (Dt).

13315 **A. vulpina** Hentz. Lava, Jl (Eng); Van Cort. Pk., *Pears* (Nic).

SUBFAMILY ACANTHOCERINAE

CLEOTUS Germar

13320 **C. aphodioides** Ill. Buffalo (Z&R). Leng queries this.

SUBFAMILY TROGINAE

TROX Fabricius

13328 **T. scabrosus** Beauv. "NY" (Lec); **SI,** on seashore (L&D).

13329 **T. monachus** Hbst. Peekskill, Ap (Sherm).

13330 **T. asper** Lec. **LI:** Calverton, Sep (Eng).

13331 **T. suberosus** Fab. **SI,** Je, seashore (L&D); **LI:** Bellport, Je (Nic); Rockaway, Jl, Orient, Jl, Sep (Ds); Promised Land, Yaphank, Je (Eng).

13333 **T. tuberculatus** DeG. **LI:** Montauk Pt. (Eng).

13336 **T. erinaceus** Lec. Buffalo (Z&R); **SI,** Feb, Ap, May, in owl pellets, and Sep, under dead rabbit (L&D); **LI:** Bellport, Aug (Nic); Yaphank, May, Oct (Sf, Eng); Flatbush, May (Eng).

13337 **T. capillaris** Say. Cranberry L., Jl (Drk); Buffalo (Z&R); Gowanda, May (Dnd); West Pt. (Robn); **SI** (L&D).

13338 **T. unistriatus** Beauv. Cranberry L., Je–Jl (H); Buffalo (Z&R); Ithaca, Jl (CU); New Paltz (Lint); Peekskill, Ap (Sherm); **SI,** Je, Aug (L&D); **LI:** Bellport, Aug (Nic); Bedford Pk., Flatbush, Jl (Eng).

13339 **T. sordidus** Lec. West Pt. (Robn); **SI,** Ap (L&D); **LI:** Bellport, Je (Nic).

13340 **T. insularis** Chev. (*foveicollis* Harold). West Pt. (Robn); **SI,** Aug (L&D); **LI:** Yaphank, Jl, Flatbush, May (Eng).

13341 **T. terrestris** Say. Peekskill, Ap (Sherm); West Pt. (Robn); **SI,** Jl (L&D); **LI:** Aqueduct, Sep (Ds); Flatbush, May (Sf).

13342 **T. aequalis** Say. Cortland Co, Je, under bird carcass (Dnd); West Pt. (Robn); **SI** (L&D); **LI:** Yaphank (Eng).

13344 **T. scaber** L. Buffalo (Z&R); E. Aurora, Je (Dnd); Catskills, May, *Pears* (Nic); West Pt. (Robn); New City, Mar (Carn, Frost); **SI,** Ap–May, in owl pellets (Ds) and sometimes at light (L&D); **LI:** Flatbush, May (Eng).

13346 **T. laticollis** Lec. "NY" (Lec).

SUBFAMILY MELOLONTHINAE

SERICA MacLeay

13354 **S. vespertina** Gyll. Buffalo (Z&R); Gowanda, Allegany Pk. (Dnd); Ithaca, May–Je (Daw); Windsor, Je (Not); West Pt. (Robn); **SI,** Ap–Jl (L&D); **LI:** Orient, Je, *Lath* (Ds); Flushing, Mar (Ds).

—— **S. cucullata** Daw. Cranberry L., Je–Jl (H); Saranac L., Sep (Daw); Peru, Je (Daw); Ithaca, May–Je, Aug, McLean, May (Daw); Sullivan Co, *Shaler* (Daw).

13355 **S. georgiana** Lg. Buffalo (Daw); Ithaca, May (Daw); Hudson, Ramapo (Daw); Bronx Pk., *Bt*, NYC (Daw); **SI**, *Bt* (Daw); **LI**: Brooklyn (Daw).

13356 **S. evidens** Blatch. **SI**, May, Aug (L&D).

—— **S. lecontei** Daw. Peru, Wilton, May, Ithaca, Ap–Jl, **SI**, paratype (Daw).

13357 **S. intermixta** Blatch. Peru, Aug, *Mix & Everett* (Daw); Ithaca, (Ap–Jl (Daw).

13361 **S. iricolor** Say. Ithaca, May, West Pt. (Robn); Peekskill, Ft. Montgomery, May, Bronx Pk., *Bt* (Daw); **SI**, Je (L&D); **LI**: Central Pk., Ap (Eng); Wading R., May, Nissequogue, Je (Ds); Wyandanch, May (Sf); Yaphank, Jl, Pinelawn, Je (Eng).

—— **S. elusa** Daw. Cranberry L., Je–Jl, Ithaca, Ap–May, Taughannock Falls, Ap (Daw).

—— **S. mystacea** Daw. Hudson, *Dbl*, Bronx Pk., Ap (Daw).

13363 **S. tristis** Lec. Peru, May–Je, Ithaca, Je (Daw); **LI**: Orient, *Lath* (NYS).

13364 **S. sericea** Ill. Wilmington, Jl (Daw); Buffalo (Z&R); E. Aurora, Mar, hibernating, Niagara Co, Jl (Dnd); Castile, May, *Brad* (Flet); Ithaca, Ap–Jl (Daw); Nyack (Daw); West Pt. (Robn); Mosholu, May (Ds); Bronx Pk., *Bt* (Daw); **SI**, Ap–Jl (Daw); often at light (L&D); **LI**: Shinnecock Hills (Ds); Orient, Je, *Lath* (Ds).

—— **S. parallela** Csy. A distinct species (Daw). New Rochelle (Fisher); Bronx Pk., *Bt* (Daw); **SI** and **LI** (Daw).

13372 **S. trociformis** Burm. Wilmington, Je (Daw); Buffalo (Z&R); Ithaca, May (Eng); Karner, May, Jl (Daw); West Pt., Je (Ds); Ft. Montgomery, May (Ds); Bronx Pk., *Bt* (Daw); **SI**, May–Je (Daw); **LI**: Nissequogue, Je (Ds); Pinelawn, Je, Yaphank, May, Jl (Eng).

—— **S. sponsa** Daw. Ghent, Je, Kenwood, May, Albany, Ap (NYS).

AUTOSERICA Brenske

—— **A. castanea** Arrow. Yonkers, Mt. Vernon, New Rochelle (Arrow).

ALOBUS LeConte

13375 **A. fulvus** Lec. "NY" (Lec).

DIPLOTAXIS Kirby

13376 **D. sordida** Say. West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Sep (Ds); Wyandanch (Sf).

13405 **D. atlantis** Fall. Castile, *Brad* (Flet); Windsor, Je (Not); **SI**, Ap–Je (Fall, L&D); **LI**: Bellport, Je (Nic); Far Rockaway, Shinnecock Hills (Ds); Yaphank, May–Je (Eng).

13409 **D. tristis** Kby. Horicon, Jl 17, 1925 (Frost); Syracuse, Ap, under stone (H); Peekskill; West Pt. (AM); **LI**: Babylon, *Bradford* (AM); Long Beach, Jamaica (AM).

13410 **D. liberta** Germ. E. Aurora, May, in numbers about roots of *Populus grandidentata* (Dnd); Ithaca, Mar–Aug (Dt); Peekskill (Fall); West Pt. (Robn); vic. NYC (AM); **LI:** Hauppauge (Felt); Cold Sp. Harb. (Sherm).

13446 **D. frondicola** Say. "NY" (Lec).

13455 **D. harperi** Blanch. "NY" (Fall).

PHYLLOPHAGA Harris

(*Lachnosterna* Hope)

13486 **P. glaberrima** Blanch. **LI:** Coney I. (Sm).

13487 **P. ephilida** Say. "NY" (Lec).

13496 **P. gracilis** Burm. West Pt. (Robn); Peekskill (Ds); **SI,** Je–Aug (L&D); **LI:** Yaphank, Riverhead, Aug–Sep (Ds); Forest Pk., Jl (Martin).

13497 **P. futilis** Lec. (*gibbosa* Burm.). Buffalo (Z&R); Ithaca, Jl (CU); **SI,** Je (L&D); **LI:** Coney I. (Lec); Rockaway Beach, May (Nic); Elmhurst (Ds); Brooklyn Bot. Garden, May (Sf); Yaphank, Je (Eng).

13499 **P. congrua** Lec. "NY" (Lec).

13503 **P. crassissima** Blanch. "NY" (Sm, Felt).

13506 **P. inversa** Horn. "NY" (Dt); West Pt. (Robn).

13508 **P. micans** Knoch. Bronxville (Felt); **SI,** May–Je (L&D); **LI:** Brooklyn (Dt); Woodside, May (Sf).

13511 **P. fusca** Froelich. Peru, *Fbs, Cy* (CU); Essex Co, Je (NYS); Warrensburg (Lint); Newport, Dec, larva (Lint); Syracuse, Ap–May (H); Glenfield, May 27 (JJDs); Buffalo (Z&R); Perry, Je, *Hawley* (CU); Pike (JJDs); Albany, Coeymans, *Lint* (Felt); Nassau, Je, *Felt* (JJDs); West Pt., Je, Ft. Montgomery, May (Ds); Bronxville, *Felt* (JJDs); **SI,** Ap–Jl (L&D); **LI:** Hollis, Je (JJDs); Orient Pt., Je, *Lath,* Wingfield, Ap, *Sedgwick* (JJDs); Yaphank, May–Je (Eng).

13515 **P. fervida** Fab. (*arcuata* Sm.). "NY" (Sm, Fitch, et al.); Bronxville (Felt); **SI** (L&D); **LI:** Elmhurst (JJDs).

13516 **P. anxia** Lec. (*dubia* Sm.). Axton, Je (M&H); Peru, Je, *Cy* (Dt); Cranberry L., Je–Jl (H); Glenfield, Lewis Co, (JJDs); Newport, Je (NYS); Marion, Je, *Leon* (Dt); Syracuse, Ap–May (H); Pike, May (JJDs); Castile, Ap, *Brad* (Flet); Perry, Je, *Hawley* (Dt); Buffalo (Glasgow, Z&R); E. Aurora, Je, scarce (Dnd); Ithaca, Mar–Jl (Dt–CU); Windsor, Je (Not); **LI:** Orient Pt., Lath (JJDs).

13517 **P. drakei** Kby. (*grandis* Sm.). Buffalo (Glasgow); Ithaca, Je (Sling); Albany, May (Felt–NYS); **SI,** Je (L&D).

13519 **P. barda** Horn. Ramapo, Jl (Ds); Wading R., May (Nic); Huntington, Ap (Schott).

13520 **P. marginalis** Lec. "NY" (Lec, Sm); Ithaca, Je–Jl (JJDs); West Pt. (Robn); Ramapo, Je (Sf).

13522 **P. fraterna** Harr. Buffalo (Z&R), as *cognata*; Albany, May, *Cy, Fbs* (CU); West Pt. (Robn); Mosholu, May (Ds); Bronxville, Je (Felt); **SI,** Ap–Je (L&D); **LI:** Yaphank, Jl (Eng).

13523 **P. forsteri** Burm. (*lugubris* Lec.). "NY" (Lec,Sm); **SI,** Ap 22, *Woodr* (L&D).

13528 **P. knochi** Gyll. "Around NYS" (Sm); **SI** (L&D); **LI:** Wading R., Coram, Riverhead, Aug (Ds); Yaphank, May (Eng).

13530 **P. rugosa** Melsh. E. Aurora, May–Je, scarce (Dnd); **LI:** Wading R., May–Je (Nic).

13531 **P. rugosioides** Linell. **LI** (Linell–US).

13532 **P. hirsuta** Knoch. West Pt (Robn); Mosholu, May (Ds); **SI,** May–Jl (L&D); **LI:** Yaphank, Je (Eng).

13535 **P. balia** Say. Buffalo (Z&R); Ithaca, Ap–Jl (Dt).

13536 **P. villifrons** Lec. Buffalo (Z&R); Ramapo, May (Ds).

13537 **P. nitida** Lec. Albany, Jl (NYS).

13538 **P. hirticula** Knoch (*hirsuta* Say). Syracuse, Ap–May (H); E. Aurora, Ap–May, frequent under cover (Dnd); Ithaca, Ap–Aug (Dt, Sling, at trap lantern); Albany, Je (Felt); West Pt., *Robn* (JJDs); Grant Pt., May (NYS); Bronxville (Felt); **SI,** May (L&D); **LI:** Brooklyn (Dt); Hollis (JJDs); Elmhurst (JJDs); Orient Pt., *Robn* (Ds).

13540 **P. ilicis** Knoch. Ithaca, May–Jl (Sling, Dt); West Pt. (Robn); **SI** (L&D); **LI:** Brooklyn (Sm); Wading R., May (Nic); Flatbush, May (Eng).

13541 **P. subtonsa** Lec. "NY" (Lec); Yaphank, Je–Jl (Eng).

13544 **P. crenulata** Froel. Albany, Aug (NYS); West Pt. (Robn); Bronxville (Felt); **SI,** Ap–Aug (L&D); **LI:** Far Rockaway (Ds); Yaphank, Jl, Greenport, Aug (Eng); Wading R., Aug (Sf).

13556 **P. quercus** Knoch. Ithaca, Je (Sling); Nyack (Frost).

13561 **P. crinita** Burm. Marlboro, May 16 (Dt–CU). Described from Tex. and Mex.

13563 **P. tristis** Fab. Syracuse, Ap, under stones (H); Cambridge (Lint); Deposit (Lint); Marlboro, May (Sz); West Pt. (Robn); **SI,** May (L&D); **LI:** Brooklyn, *Yg* (Dt); Elmhurst (JJDs); Orient, May, *Lath* (Ds); Yaphank, May (Eng).

POLYPHYLLA Harris

13624 **P. variolosa** Hentz. Peru, Jl (CU); Buffalo (Z&R); Karner, Schenectady, Jl–Aug, *Yg* (Felt); **SI,** Je–Jl, at light (L&D); **LI:** Bellport, Coney I., Je (Nic); Rockaway, Je (Ds); Riverhead, Jl (Ds).

DICHELONYX Harris

13649 **D. elongata** Fab. Axton, Je (M&H); Cranberry L., Je (H); Charlotte (AM); Olcott (Dt); Buffalo (Z&R); Erie Co, common, May (Dnd); Batavia, Je (Kngt); Castile, May, *Brad* (Flet); Conesus L., Je (Ds); S. Salem, Je (Lint); McLean, Ringwood, Ithaca, May–Je (Dt); Windsor, Je (Not); West Pt. (AM); Ramapo (Sf); **SI,** Je (L&D); **LI:** Amagansett, May, Yaphank, Je (Eng); Babylon, Flatbush (AM).

13650 **D. canadensis** Horn. "NY"? (Horn).

13651 **D. subvittata** Lec. Cranberry L., Je 13 (H); West Pt. (Robn); Ft. Montgomery, May (Ds); **SI,** May–Je (L&D).

13652 **D. diluta** Fall. Windsor, Je (Not); Schoharie (Not); Ramapo, Je 12, identity queried (Ds); **LI** (Jn).

13653 **D. fuscula** Lec. Vic. NYC (AM); **LI:** Val. Stream, Jl, Deep Pond, Wading R., Yaphank, May (Ds); Bellport, Je (Nic); Wyandanch (Sf).

13654 **D. testacea** Kby. Perry, Je, *Hawley* (Vdyk–CU); Windsor, Je (Not).

13655 **D. backi** Kby. Recorded from "NY" by Fitch, but Fall and Leng query the determination.

13676 **D. albicollis** Burm. Cranberry L., Je–Jl (H); Buffalo (Z&R); Westfield, Je (NYS); Ithaca, Je (Vdyk); Karner, Je (NYS); West Pt. (Robn); Nyack, Je (Ds); Brant L., Aug (Doll); **SI,** Je, on pine (L&D); **LI:** Yaphank (Sf).

MACRODACTYLUS Latreille

13685 **M. subspinosus** Fab. ROSE BUG. Common and general in sandy areas. Cranberry L., *Htly* (H); Oswego (Lint); Rochester (Felt); Batavia, Je (Kngt); Ithaca; Utica (Fitch); Stillwater (Fitch); Albany, Schodack, Loudonville, and Peekskill (Lint); West Pt. (Robn); Grahamville; NYC (Fitch); **SI,** Je–Jl (L&D); **LI,** general.

HOPLIA Illiger

13694 **H. trifasciata** Say. Cranberry L., Jl (H); Olcott, May–Je (Dt); Greece, May (Felt); Genesee Co, Je (Ds); Buffalo (Z&R); Windsor, Je (Not); **SI,** Ap, sometimes common on hickory buds (L&D); **LI:** Orient, *Lath* (NYS).

13694a **H. trifasciata** var. **tristis** Melsh. "NY" (Lec); **SI** (AM).

13695 **H. trivialis** Harold. "NY" (Lec); **SI,** May (L&D).

13697 **H. limbata** Lec. (*modesta* Hald.). Schoharie (Not); **SI,** Je (L&D); **LI** (Schaupp); Long Beach (AM); Rockaway (Dietz, Fall); Hempstead Plains, Ap (Eng).

13698 **H. equina** Lec. **SI,** Jl (L&D).

SUBFAMILY RUTELINAE

ANOMALA Samouelle

13709 **A. binotata** Gyll. **SI,** May 4 and 28 (L&D); **LI:** Rockaway Beach, Je (Ds); Far Rockaway (Jn).

13730 **A. undulata** Melsh. **LI:** Flatbush, Barren I. (AM).

13732 **A. innuba** Fab. **LI:** Bellport, Je (Nic); Yaphank, Je (Eng).

—— **A. orientalis** Waterh. New Rochelle; Mt. Vernon; White Plains; **LI:** Westbury; Jericho, *Boyce*.

PACHYSTETHUS Blanchard

13739 **P. marginata** Fab. **LI** (Eng).

13741 **P. lucicola** Fab. Buffalo (Z&R); Karner, Je–Jl (Felt); Croton-on-Hudson (Ds); West Pt. (Robn); White Plains, Je–Jl (Sq); **SI,** Je–Jl (L&D); **LI:** Orient, May, Jl (Ds); Woodhaven (Dt); Greenport, Aug (Eng); Rockaway Beach, Je (Eng). The *Anomala maculicollis* recorded from N. Y. by Fitch possibly belongs here (Lg).

13742 **P. oblivia** Horn. **SI,** Je (L&D); **LI:** Bellport, Jl (Nic); Yaphank, Jl (Eng).

STRIGODERMA Burmeister

13747 **S. arboricola** Fab. Ithaca, *Anderson* (Dt); **SI**, Je–Jl (L&D); **LI**: Rockaway Beach, Je (Ds); Woodhaven, *Benjamin* (Dt); Long Beach (AM); Orient, *Lath* (NYS).

STRIGODERMELLA Casey

13750 **S. pygmaea** Fab. **SI**, Jl (L&D); **LI**: Gardiners I., Jl (Eng).

POPILLIA Serville

13754 **P. japonica** Newn. JAPANESE BEETLE. East bank of Hudson R. northw. to Ossining; Port Chester; **LI**: western third of island.

PELIDNOTA MacLeay

13755 **P. punctata** L. Adirondacks (Fitch); Olcott, May–Aug (Dt); Honeoye Falls (CU); Buffalo (Z&R); Batavia, Aug–Sep (Kngt); E. Aurora, Jl–Sep, common (Dnd); Ithaca, Saratoga, May–Aug (Dt); Branchport (Lint); Kenwood, Je (NYS); West Pt. (Robn); White Plains, Jl–Sep (Sq); **SI**, Je–Aug (L&D); **LI**: Promised Land, Sep (Ds); Flatbush, Queens, Babylon (AM); Orient, *Lath* (NYS).

13755b **P. punctata** var. **brevis** Csy. **LI** (Csy).

13757d **P. lutea** Oliv. var. **hudsonica** Csy. "NY" (Csy).

13758 **P. tarsalis** Csy. "NY" (Csy).

COTALPA Burmeister

13769 **C. lanigera** L. Buffalo (Z&R); West Pt. (Robn); Croton-on-Hudson, May (Ds); NYC (Martin); **SI**, May–Jl (L&D); **LI**: Southampton, Je (CU); Wyandanch, Half Way Hollow Hills, May–Jl, Wading R., Orient (Ds); Promised Land, Je (Eng).

13769b **C. lanigera** var. **vernicata** Csy. "NY" (Csy).

POLYMOECHUS LeConte

13787 **P. brevipes** Lec. "NY" (Lec).

SUBFAMILY DYNASTINAE

OCHROSIDIA Casey

13801 **O. immaculata** Oliv. **SI**, Je–Aug (L&D); **LI** (Eng).

13803 **O. villosa** Burm. **SI** (Csy).

DYSCINETUS Harold

13829 **D. trachypygus** Burm. Nyack, Catskills (AM); **SI**, Ap–Jl (L&D); **LI**: Babylon (AM); Orient, *Lath* (NYS).

LIGYRODES Casey

13834 **L. relictus** Say. Rochester (Lint); Buffalo (Z&R); Ithaca (CU); West Pt. (Robn); **SI**, May–Sep, Oct, one on sidewalk (L&D); **LI**: Flatbush, Barren I. (AM); Brooklyn, Oct (Eng).

LIGYRUS Burmeister

13838 **L. longulus** Csy. **LI** (Csy).

13843 **L. gibbosus** DeG. **SI**, May–Aug (L&D); **LI**: Brooklyn (Yg, Dt); Rockaway Beach, Ap (Eng).

APHONUS LeConte

13874 **A. politus** Csy. "NY" (Csy).

13878 **A. castaneus** Melsh. "NY" (Lg Cat., as *obesus* Burm.). **SI**, Jl (L&D); **LI**: Flatbush, Jl (Eng).

13879 **A. cubiformis** Csy. **LI** (Csy).

STRATEGUS Hope

13896 **S. antaeus** Fab. **LI**: Bellport, Aug (Nic); Selden, Aug (Ds); Deep Pond, Wading R., Aug, *Sf* (Ds); Riverhead, Aug. This species should be called *septentrionis* if the differences noted by Casey are specific (Lg).

XYLORYCTES Hope

13902 **X. satyrus** Fab. Buffalo (Z&R); Ithaca, Jl–Aug (Dt, Flet); Schoharie (Not); West Pt. (Robn); **SI**, Je–Aug (L&D); **LI**: Babylon, injurious to young ash trees (Glover); Bellport, Jl–Aug (Nic); Montauk, Sag Harbor (Dimmock); Glen Cove, Far Rockaway, Amagansett, Yaphank, Jl (Ds); Orient, *Lath* (NYS).

DYNASTES Kirby

13908 **D. tityus** L. Kingston, Jl, at light (Fernow). A solitary record for this southern species (Lg).

SUBFAMILY CETONIINAE

COTINIS Burmeister

(*Allorrhina* Burmeister)

13931 **C. nitida** L. GREEN JUNE BEETLE. Irvington, Jl (NYS); NYC (AM); **SI**, Je–Jl, swarming about beds of Canna (L&D); **LI**: Glen Cove (NYS); Central Pk. (AM).

EUPHORIA Burmeister

13937 **E. fulgida** Fab. Little Falls (Lint); Trenton Falls (Dbl); Gloversville, Je (NYS); Buffalo (Z&R); E. Aurora, Je, at sap, scarce (Dnd); Ithaca, Je (CU); Windsor, Je (Not); Albany, Je (NYS); Catskills, *Pears* (Nic); West Pt. (Robn); Middletown, Je–Jl (CU); L. Waccabuc (AM); **SI** (L&D); **LI**: Brooklyn (Ds); Yaphank, Jl (Eng).

13938 **E. herbacea** Oliv. **SI,** May–Aug, not uncommon some years ago at Silver L. (L&D); **LI:** Shelter I. (Sf).

13940 **E. inda** L. BROWN FRUIT CHAFER. Adirondacks (Felt); Warrensburg; Syracuse, May (H); Rochester, Sep (CU); Honeoye Falls; Olcott, Ap–Sep (Dt); Buffalo (Z&R); Batavia, Aug–Sep (Kngt); E. Aurora, May, Aug, scarce (Dnd); Brocton (Cy); Ithaca, May–Sep (CU); Schenectady; Greenfield Center; Albany, Ap, Sep (NYS); Stuyvesant Falls (NYS); Poughkeepsie; Millbrook; West Pt. (Robn); White Plains (Lint); Yonkers; Mt. Kisco, larvae in manure pile (Sling); Bronx Pk. (AM); **SI,** Mar–Sep, sometimes attracted to sap on birch stumps (L&D); **LI:** Wading R., May, Amagansett, Sep, Southold, Sep, Orient (Ds); Babylon, Quogue, Flatbush (AM).

STEPHANUCHA Burmeister

13964 **S. areata** Fab. **SI,** Sep (L&D); **LI:** Jamaica, *Pears* (Nic); Aqueduct (Ds).

CREMASTOCHEILUS Knoch

13972 **C. harrisi** Kby. Peekskill, Sep (CU); Tarrytown (AM); **LI:** Wading R., May 30 (Nic); Promised Land, Je, Cold Sp. Harb., Ap (Eng); Far Rockaway (Jn).

13973 **C. canaliculatus** Kby. Mooers, Sep (Not); Saranac, Newport; Westfield, May (Not); Phoenicia (Vdyk); Gloversville, Hunter, May–Je (NYS); Windsor, Je (Not); Schoharie (Not); Peekskill, Sep (CU); West Pt. (Robn); Sterling L., May (Kneff).

13974 **C. castaneae** Knoch. Catskills, *Pears* (Nic); Greenville, Jl 30 (Joutel); Greenwood L., May (AM); West Pt. (Robn); Ft. Montgomery, May (Schott); Dutchess Co, Ap (Eng); Peekskill (Fall); Bronxville, Ap (Joutel).

13980 **C. variolosus** Kby. West Pt. (Robn); **LI:** Wyandanch, Ap (Sf).

OSMODERMA Serville

14010 **O. scabra** Beauv. Adirondacks (Felt); Wilmington, Jl–Aug (Dt); Cranberry L., Je–Jl (H); Buffalo (Z&R); E. Aurora, Je, Aug, scarce (Dnd); Batavia, Jl (Kngt); Ithaca, Jl–Aug (Vdyk); McLean, Aug, *Yuasa* (Vdyk); Saratoga, N. Spencer (Dt); Albany, Je–Jl (NYS); West Pt. (NYS); Catskills, Jl (Shoe); **SI,** Je–Aug (L&D).

14010a **O. scabra** var. **rugosa** Kby. Ithaca, Jl (Dt).

14012 **O. eremicola** Knoch. Essex Co, Jl–Aug (NYS); Buffalo (Z&R); E. Aurora, Aug, scarce (Dnd); Batavia, Aug (Kngt); Castile, Aug, *Brad* (Flet); Lake Bluff (NYS); Ithaca, Jl–Aug (Vdyk); West Pt. (Robn); Huguenot, Mosholu (AM); **SI,** Jl–Aug (L&D); **LI:** Yaphank (NYS).

GNORIMELLA Casey

(*Gnorimus* auct.)

14013 **G. maculosa** Knoch. Buffalo (Z&R); Allegany Pk., Jl, one (Dnd); West Pt. (Robn); Van Cort. Pk., *Pears* (Nic); **SI,** May–Je (L&D); **LI:** Coram, May (Bell).

TRICHIOTINUS Casey

14016 **T. piger** Fab. Cranberry L., Jl (Drk); E. Aurora, Buffalo, Je–Jl, common on flowers (Dud); Batavia, Je (Kngt); Castile, *Brad* (Flet); Ithaca, Jl (Dt); Schoharie (Not); West Pt. (Robn); Stony Pt. (AM); **SI,** Je–Jl (L&D); **LI:** Yaphank, Je (Eng); Orient, *Lath* (NYS).

14017 **T. texanus** Horn. **SI,** *Eng* (Joutel); **LI** (Eng). Fall queries these records, since the species is listed from Tex. and Fla.

14022 **T. assimilis** Kby. Catskills, Jl (Eng).

14023 **T. viridans** Kby. "NY" (Fitch). Leng suggests that this possibly refers to *assimilis.*

14025 **T. affinis** Gory. Mt. Marcy; Saranac Inn, Old Forge, Jl (NYS); Long L. (Ds); Hewitt, Je (Ds); Axton, Je (M&H); Cranberry L., Je, Aug (H); Olcott, Je–Aug (Dt); Buffalo (Z&R); Syracuse, Je 27, in hickory (B&S); Ithaca, Jl 22, *Yuasa* (Vdyk); Ringwood, Je–Aug (Dt); Windsor, Je (Not); Schoharie (Not); L. George (AM); Albany, Jl (NYS); West Pt., Stony Pt., Je, Ft. Montgomery, Callicoon, Jl (Ds); **SI,** Je–Aug (L&D); **LI:** Yaphank, Long Pond, Wading R., Jl (Ds).

14026 **T. parvulus** Csy. "NY" (Csy).

14027 **T. bibens** Fab. Buffalo (Z&R); Ramapo, May (Ds); Greenwood L. (Dietz).

VALGUS Scriba

14030 **V. squamiger** Beauv. West Pt. (Robn); **SI,** Ap 9, in decayed log; also found May–Je (L&D); **LI:** Central Pk., Ap (Eng); Pinelawn, Yaphank, Ap, Central Pk., Sep (Eng); Farmingdale (Sf).

14031 **V. canaliculatus** Fab. Peekskill, May (Sherm); Rensselaer, May (NYS).

FAMILY LUCANIDAE

Compiled by JOHN W. ANGELL

SUBFAMILY LUCANINAE

PSEUDOLUCANUS Hope

14034 **P. capreolus** L. (*dama* Fab.). Formerly common throughout the State; now becoming rarer. L George, Je, *Shoe*; Medina, Jl (CU); Tonawanda, Jl (CU); Olcott, May–Aug (Dt); Buffalo (Z&R); Elmira, Je (CU); Ballston, Jl (NYS); Coeymans (NYS); Albany, Je–Jl (NYS); Nassau, Je, *Felt*; Athens, Jl (Ang); Catskills, Jl (NYS); Nyack, *Zab*; Fishkill; West Pt., *Robn*; Croton, Je (*Ds*); NYC: West Farms (AM); Clason Pt., Jl; Washington Hgts., Jl (Ang); Bronx Pk.; Van Cort. Pk., *Nic*; **SI:** May–Aug, *L&D*; Princess Bay, Je (Ang); Clove Valley, Je–Aug, *Lg*; **LI:** Brooklyn, Aug, *Shoe*; Jamaica, *Nic*; Hollis; Rockaway Beach, Je, *Shoe*; Shelter I., Aug, *Ds*; Babylon; Orient Pt., Jl, *Lath*; Flatbush, Aug (Ang).

The larva lives in the wood of deciduous trees such as maple, oak, and apple. Adults are often taken by beating the foliage of oak, or by "sugaring" at light or on the bark or at the base of the trees mentioned. The species exhibits considerable variation in size and color. Specimens vary from deep chestnut to pale reddish brown.

14036 **P. placidus** Say. Generally considered a western species, but said to be fairly common in northern localities such as Buffalo. Dr. Melville H. Hatch records it at Ann Arbor, Mich., at light and in beach drift. Buffalo (Ang); Olcott, May–Je (Dt).

The larva lives in oak, according to Carl Selinger.

SUBFAMILY **DORCINAE**

DORCUS MacLeay

14039 **D. parallelus** Say. Formerly a common species throughout the State, but now becoming rarer. Mt. Marcy, *Not*; Herkimer, Jl (Geo. Franck Coll.); Rochester (Ward Coll.); Hodgeville; Buffalo, *Ashm, Z&R*; Batavia, Je (Kngt); Otto, Jl (CU); Aurora, Je, *Zab*; Ithaca, May-Aug (CU); Schoharie, *Not*; Schenectady, Jl; Catskills, Je; North Branch, *Schaupp*; West Pt., *Robn*; Cooks Falls, Oct (Ang); White Plains; Dunwoodie, Je (Ang); Nepperhan, Ap (Ang); NYC, Allerton Ave., Ap; Clason Pt., May–Jl (Ang); Washington Sq. (Ang); West Farms (Ang–AM); Bronx; Van Cort. Pk., May, *Diven*; **SI:** May, *L&D*; Bulls Head, May (Ang); **LI:** Rockaway Beach, Je, *Diven*; Corona, Je; Babylon, Je; Flatbush, Oct, *Zab*; Wading R., Aug, *Schott*; Jamaica, *Pears*; Cold Sp. Harb., *Brb*; Brooklyn, Jl, *Shoe*.

The larva lives in the wood of deciduous trees, such as oak, maple, and sycamore, boring in the hard part of the wood. Adults are often taken in or under charred logs or stumps or at light.

14039a **D. parallelus** var. **carnochani** Ang. Evidently a local race or variety. Three specimens, all male, were taken by F. G. Carnochan while blasting stumps on a farm at New City. Differs from typical form in slightly heavier body, smoother elytra, and blunter mandibles.

PLATYCERUS Geoffroy

14041 **P. quercus** Weber. Fairly common throughout the State. Newport, *Yg*; Syracuse, Ap, *H* (Ang); Olcott, Je–Sep (Dt); Batavia, Je (Kngt); Westfield, May (Not); Buffalo, *Z&R*; Ithaca, Sep (CU); Taughannock Falls, May (CU); McLean, Je–Sep (Dt); Windsor, Je (Not); W. Hebron (Lg Coll.); Catskills, May, *Pears*; Big Ind. Valley, Je, *Pears*; Southfields, May, *Schott*; West Pt., *Robn*; Suffern, May, *Schott*; Hillburn, Nyack, May, *Schott*; Ramapo Mts., May (AM); Hartsdale (AM); **SI**, Je, *Joutel, L&D*; **LI:** Jamaica, Ap; Queens, *Schott*.

The larva lives in oak, and, rarely, in hickory. Adults are often found resting on flowers, such as wild blackberry. Also occurs in spring flights of many individuals. Adult male insects show two forms, a black and a dark green.

14045 **P. depressus** Lec. Axton, Je, *M&H*; Crown Pt., Jl (NYS); Ticonderoga, May, *Bks*; Northampton, *Yg*; Mt. Marcy, *Not*; Buffalo, *Z&R*; Pike, Je (NYS); Catskills, May, Sep, *Pears*; Pine I., Je–Jl, *FrostSW, Sf*; NYC, Je.

Differs considerably from the typical form, being more elongate, with heavier mandibles and striations of the elytra, and may prove to be a new species; color varies from deep bronze to black.

SUBFAMILY **AESALINAE**

CERUCHUS MacLeay

14058 **C. piceus** Weber. Common throughout the State. Mt. Marcy, *Not*; Cranberry L., Je, *H*; Newport, *Yg*; Peru, Je (CU); Gloversville, Sep (NYS); Batavia, Je–Jl, *Ds* (Kngt); Buffalo, *Ashm*, *Z&R*; Ithaca, Mar–Ap, Sep, *Bish*, *Dt* (CU); Freeville, Windsor, Je (Not); W. Hebron, Je, *Lg*; Coeymans, Ap (NYS); Slide Mt., Catskills, Je, Sep, *Ds*, *Shoe*; Cooks Falls (Ang); North Branch, *Schaupp*; Katonah, *Lg*; Mosholu (AM); West Pt., *Robn*; Yonkers, Oct (Ang); Nepara Pk., Yonkers, Mar, *Diven*; NYC, Pelham Parkway; Van Cort. Pk., Nov (Ang); Rattlesnake Cr., Ap (Ang); West Farms (AM); **SI**, Jl (L&D); **LI**: Queens, Nov, *Schott*; Bellport, Jl, *Nic*; Yaphank, Jl, *Ds*; Orient, Sep, *Lath*; Montauk, Jl (Ang).

The larva lives in the decayed wood of white birch, elm, oak, hemlock, maple, and butternut. Specimens recorded from northern or mountainous parts of the State often exhibit considerable rugosity of elytra, particularly noticeable in the females, and attain a greater size.

NICAGUS LeConte

14062 **N. obscurus** Lec. Locally common. Usually considered a seashore species, although occasionally found inland. Wm. T. Davis records this species as found on the plant vegetation of the up-beach at Wading R., LI. Keene Val., May (Not); Mt. Marcy, *Not*; Buffalo, *Z&R*; Westfield, May (Not); **LI**: Wading R., May–Je, *Diven*; Montauk, Je, *Schott*.

FAMILY **PASSALIDAE**

PASSALUS Fabricius

14064 **P. cornutus** Fab. Common all over the State in the decaying, and generally moist, wood of deciduous trees (Ang). Representative localities are: Adirondacks (Felt); Batavia; Olcott, May, Aug, Nov (Dt); West Pt. (Robn); **SI** (L&D).

FAMILY **CERAMBYCIDAE** [50]

SUBFAMILY **PRIONINAE**

PARANDRA Latreille

14067 **P. brunnea** Fab. PARANDRA BORER. Adirondacks (Felt); Syracuse, Onondaga Hill (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora, *Wild* (Dnd); Olcott, Jl–Aug, Oct (Dt); Castile, *Brad* (Flet); Ithaca, Jl–Sep (Dt), Spring L. Beach, Ithaca, Jl, under bark of *Pinus rigida* (Chitt); West Pt. (Robn); **SI**, Aug–Sep (L&D); **LI**: Brooklyn, Aug (Ds), in hollow trunks of Ailanthus (Linell); Greenport, Aug (Ds); Prospect, Aug, Central Pk., Je (BM). Larva in nearly all kinds of coniferous and hardwood trees (Fisher).

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[50] W. S. Fisher has gone over this list, and has supplied many New York food-plant notes. Dr. M. W. Blackman also has supplied records.

DEROBRACHUS Serville

(*Orthosoma* Serville)

14081 **D. brunneus** Forst. LESSER PRIONUS. Adirondacks (Felt); Cranberry L., Jl (Mund); Syracuse, Sodus Bay (Blkm); Rochester (M&W); Buffalo (Z&R); Avon, Jl, *Cls*; Cattaraugus and Allegany Counties (Dnd); Ithaca, Aug (Dt–CU); McLean, N. Spencer, Jl–Aug (CU); W. Hebron (Lg); West Pt. (Robn); **SI**, Jl–Aug (L&D); **LI**: Riverhead, Aug (Ds); Greenport, Aug (Ds); Orient, Je, *Lath* (Ds). Twenty more records (Lg). Larva in decaying logs and stumps of nearly all hardwood trees (Fisher).

PRIONUS Fabricius

14084 **P. laticollis** Drury (*kempi* and *oblongus* Csy.). BROAD-NECKED PRIONUS. Adirondacks (Felt); Syracuse (Blkm); Buffalo (Z&R); Geneva, *Cls*; Ithaca, Jl–Aug (Dt–CU); L. George, Jl (Zab); Schenectady (Dt–CU); Oak Hill, Jl–Aug, in roots of oak (Clarkson); West Pt. (Robn); White Plains, Jl (Frost, Sq); Peekskill (Blkm); Bronx (Ds); **SI**, Jl–Aug (L&D); **LI**: Half Way Hollow Hills, Wading R., Yaphank, Jl (Ds); Orient, *Lath* (NYS); Oyster Bay, Selden, Aug (Ds); Croton, Je–Jl (Ds). Twenty-five more records (Lg). Larva works within the roots of various hardwoods, especially oak, poplar, and chestnut (Fisher).

—— **P. nigrescans** Csy. Adirondacks, L. Champlain (Csy).[51]

14085 **P. pocularis** Dalm. Saratoga, Aug (Dt–CU); Bronxville, Jl (Woodr); **LI**: Yaphank, Aug, at light (Ds); Bay Shore, Aug (Olsen). Larva in dead pine logs (Fisher).

14089 **P. imbricornis** L. **LI**: Bay Shore, Aug, *Ols* (BM). Larva in the roots of oak and chestnut (Fisher).

TRAGOSOMA Serville

14097a **T. depsarium** L. var. **harrisi** Lec. Adirondacks (Felt); Cranberry L., Jl (Mund); Long L. (Ds); Wanakena, Aug (Drk); Lewiston, Jl (Lg Coll.); Buffalo (Z&R); Ithaca, Jl (CU); North Branch (Schaupp); Bronx (BM); **LI**: Yaphank, Aug (AM); North Beach, Aug (BM). Larva in sapwood and decaying wood of coniferous trees.

DISTENIA Serville

14098 **D. undata** Fab. West Pt. (Robn); **SI** (L&D); **LI**: Westbury (Champlain). Chestnut, hickory, and hornbeam (Felt). Larva in hickory, elm, and redbud (Fisher).

SMODICUM Haldeman

14099 **S. cucujiforme** Say. **SI** (L&D). Oak, beech, hackberry, and willow (Felt). Larva in the heartwood of very old, dry, and seasoned hardwoods, including oak, hickory, beech, elm, etc. (Fisher).

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[51] The species of Prionus described by Casey in 1912 were treated as synonyms in the Leng catalog. Casey in 1924 reiterated his opinion that they were valid species, and added *nigrescans* to the category. It is here retained, as it has not been studied since its description.

ASEMUM Eschscholtz

14107 **A. moestum** Hald. Axton (Houghton); Cranberry L., May–Jl (Mund); Mt. Whiteface, Jl (Ds), Sep (Lg); Mt. Seward, 4500 ft., Je (Houghton); Syracuse (Blkm); Crittenden (Blkm); Buffalo (Z&R); Allegany Pk. (Dnd); Ithaca, Jl (Dt–CU); Nassau, Troy, breeds in pine (Felt); West Pt. (Robn); Bronx (AM); **SI,** Je (L&D); **LI** (Nic, Ds). Larva in spruce, fir, and larch (Fisher).

14109 **A. ebenum** Csy. Cranberry L., Je (Mund); Mt. Whiteface trail, Jl (Ds), as *atrum* Esch., an allied western species. Larva in spruce in the West (Fisher).

TETROPIUM Kirby

14124 **T. cinnamopterum** Kby. Adirondacks, Je–Jl (NYS); Axton (Houghton); Wanakena, Aug (Drk); Cranberry L., Je–Jl, bred from spruce (Mund); Syracuse (Blkm). Larva in pine, spruce, and fir (Fisher).

14128 **T. velutinum** Lec. Mt. Whiteface trail, Jl (Ds); Cranberry L., Je (Mund). Larva in pine (Fisher).

CRIOCEPHALUS Mulsant

14132 **C. agrestis** Kby. Adirondacks (Hill); Cranberry L., Jl (Mund); Oswego (NYS); Buffalo (Z&R); Ithaca, Je–Jl (Dt–CU); Albany, Aug (NYS); **SI,** Je (L&D); **LI:** Bay Shore, Aug (BM). Infests roots of pine and spruce (Felt).

14139 **C. obsoletus** Rand. Buffalo (Z&R); E. Aurora (Dnd); **LI,** Je–Aug (Nic, Shoe). Larva in pine (Fisher).

—— **C. champlainianus** Csy. L. George (Csy).

OEME Newman

14146 **O. rigida** Say. Bronxville, Je (Woodr); **SI,** Jl, bred from cedar (L&D); **LI:** Je–Jl, in wash-up (Shoe); Rockaway Beach, Je (BM). Larva in juniper or red cedar (Felt).

DRYOBIUS LeConte

14153 **D. sexfasciatus** Say. "NY". Larvae mine inner bark of dead elm, exceedingly rare (Fitch). Larva in basswood (Fisher).

TESSAROPA Haldeman

(*Dysphaga* LeConte)

14168 **T. tenuipes** Hald. **SI,** Je, from terminal twig of ash (L&D). On oak, walnut, and redbud (Felt). Larva in twigs of oak, hickory, and beech; pupates in late summer or fall, and adults remain in twigs over winter, emerging very early in spring (Fisher).

TYLONOTUS Haldeman

14177 **T. bimaculatus** Hald. Northern NY (Pack); Gloversville, Aug (Yg); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); West Pt. (Robn). Larva in ash, hickory, black walnut, tulip, and birch (Felt).

STROMATIUM Serville

14178 **S. fulvum** Villers. Cosmopolitan.

14179 **S. pubescens** Hald. Buffalo (Z&R); **LI** (Ds).

CHION Newman

14181 **C. cinctus** Drury. Syracuse (Blkm); Buffalo (Z&R); Penn Yan (Dt); Ithaca (Philip Miller); Albany (NYS); Hudson, May, larva on hickory, oak, and plum (NYS); West Pt. (Robn); NYC, Mar–May, from firewood (Woodr); **SI** (L&D); **LI**, Je (BM). In cut timber, especially hickory (Felt). Larva in walnut, oak, hickory, and chestnut (Fisher).

EBURIA Serville

14190 **E. quadrigeminata** Say. Syracuse, bred from hickory (B&S); West Pt. (Robn); **LI** (Lg). On honey locust, hickory, ash, beech, elm, and oak (Felt).

ROMALEUM White

14196 **R. atomarium** Drury. Syracuse (Blkm); Charlotte, Sep (NYS); **LI**: Bellport, Jl–Aug (Nic); Wading R., Jl (Ds). Larva in stumps and logs of recently dead oak (Felt) and chestnut (Fisher).

14199 **R. rufulum** Hald. Syracuse (Blkm); Buffalo (Z&R); Ithaca, Sep (CU); W. Hebron (Lg); New Paltz, Aug (Ds); West Pt. (Robn); Bronxville, Jl (Woodr); **SI**, Jl–Aug (L&D); **LI**: Brooklyn, Jl (Shoe); Yaphank, Jl (Ds). Larva in oak (Fisher).

HYPERMALLUS Lacordaire

14207 **H. incertus** Newn. Syracuse, bred from hickory (B&S); Bronxville, Jl (Woodr); **LI**: Yaphank, Sep (Ds); Rockaway, Aug (Woodr); Bellport, Je (Nic). Larva in mulberry (Fisher).

14210 **H. abruptus** Csy. West Pt., Je (Not–AM); **LI** (Not–AM).

14211 **H. villosus** Fab. THE OAK PRUNER. Syracuse (Blkm); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jl (Dt–CU); L. George (Felt); Lawrence (Blkm); Nyack, Je (Ds); West Pt. (Robn); **SI**, May–Aug (L&D); **LI**: Wading R., Je (Ds); Wyandanch, Yaphank, Jl (Ds); Flatbush, Ap, Yaphank, May, Amagansett, May (BM). Twenty-five other records (Lg). Not very injurious (Felt). Larva in a great variety of hardwoods (Fisher).

14212 **H. militaris** Csy. "NY" (Csy).

14214 **H. medialis** Csy. Huguenot, Aug, bred from *Quercus rubra* (Not–AM).

14217 **H. parallelus** Newn. Lewiston, Jl (Lg); Buffalo (Z&R); Ithaca, May (Dt); Albany (NYS); West Pt., Je (Ds); Newburgh, Blauvelt (NYS); Thousand Isls., May–Jl (Ds); **LI**: Wading R., May (Ds); Bellport, Sea Cliff, Bayport (NYS). Larva in a variety of hardwoods (Fisher).

ELAPHIDION Serville

14219 **E. irroratum** L. "NY" (Lec, Hald).

14220 **E. mucronatum** Say. L. Minnewaska, Jl (Ds); Buffalo (Z&R); West Pt. (Robn); **SI,** Je, Jl, Aug (L&D); **LI:** Half Way Hollow Hills, Jl (Ds); Brooklyn, Jl–Aug (Shoe); Flatbush, Je (BM). Larva in chestnut, redbud, maple, oak, poplar, mulberry, and many other hardwoods (Fisher).

ANEFLOMORPHA Casey

14227 **A. subpubescens** Lec. **LI:** Rockaway Beach, Central Pk., May (Ds); Wyandanch, Jl, Yaphank, May, Jl, Deep Pond, Wading R., Je (Ds). Larva in chestnut and oak (Fisher).

ANOPLIUM Haldeman

14240 **A. cinerascens** Lec. Buffalo (Z&R); West Pt. (Robn); Bronxville, Jl (Woodr); **SI** (L&D). (*A. pumilum* record probably belongs here.)

PSEUDIBIDION Casey

14263 **P. unicolor** Rand. Adirondacks, Jl (Lg); Syracuse, bred from hickory (B&S); Rochester (M&W); Buffalo (Z&R); Avon, Je, *Cls*; Ithaca, Je (Dt–CU); Clinton Hgts., Je (NYS); West Pt. (Robn); Mt. Kisco, Aug (NYS); **SI,** Je 29 (L&D); **LI:** Brooklyn (Shoe); Central Pk., Yaphank, Jl (Ds); Bellport, Aug, beating scrub oak (Nic); Thousand Isls. (Ds). Larva in oak, beech, walnut, and hickory (Fisher).

HETERACHTHES Newman

14268 **H. ebenus** Newn. **SI,** Je (L&D); **LI:** Rockaway, May, Wyandanch, Je (Ds); Babylon, Je–Jl, Long Beach (AM); Bellport, Jl (Nic); Hicksville, Aug (Champlain). Larva in pine (Fisher).

14271 **H. quadrimaculatus** Fab. Syracuse, bred from hickory (B&S); Buffalo (Z&R); West Pt. (Robn); Bronx (BM); Bronxville, Je (Woodr); Riverdale, Jl (Woodr); West Farms (AM); NYC (Ds); **SI,** Je–Jl, hatched from hickory (L&D); **LI,** Jl (Shoe). Larva in hickory and tulip poplar (Fisher).

GRACILIA Serville

14282 **G. manca** Lec. Type of *manca* from NY. NYC (Lg Coll.). Possibly identical with *minuta.*

14283 **G. minuta** Fab. Syracuse (Blkm); Buffalo (Z&R); NYC (AM).

OBRIUM Curtis

(*Phyton* Newman)

14286 **O. maculatum** Oliv. (*pallidum* Say). Buffalo (Z&R); Mosholu (BM); **SI,** Jl, on oak (L&D); **LI:** Jl (Ds); Aqueduct, Jl (Ds). Larva in oak, hackberry, hickory, mulberry, and chestnut (Fisher).

14291 **O. rufulum** Gahan (*rubrum* Lg.). Buffalo (Z&R); White Plains, Jl (Frost, Sq); Bronx (BM); **SI,** Jl, on privet (L&D); **LI:** Flushing, Aug (Ds). Larva in ash (Felt).

RHAGIUM Fabricius

14298 **R. lineatum** Oliv. RIBBED PINE BORER. Mt. Whiteface, Jl (Ds); Cranberry L., Je, Sep (Mund); Syracuse (Blkm); Buffalo (Z&R); Geneva, Je–Jl, *Cls*; Ithaca, Oct (Ds); Taughannock Falls, Ithaca, Ap (Dt–CU); Schenectady, Dec (Dt); Albany (Felt); Elka Pk (Blkm); West Pt. (Robn); **SI**, Ap–Nov, under bark of white pine (L&D); **LI** (Eng); Wyandanch, Ap, pitch pine (Ds); Yaphank, May (Ds); Central Pk., Ap (BM). Larva in pine (Fisher).

HAPALOSALIA Casey

14304 **H. aurata** Horn. Genesee Co, Je (Lg); Portageville, Jl (Ds); Rock City, Je (Ds); Ithaca, Je–Jl (Dt); Ringwood, Je–Jl (Dt–CU); Windsor, Je (Not); Catskills, Jl (Blk).

14308 **H. vibex** Newn. Mt. Whiteface, Jl (Shoe); Protection (Dnd); Newport (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Potter Swamp, Yates Co, Je (Ds); Ithaca, Coy Glen, Ringwood, Danby, Je–Jl (Dt–CU); Kenwood, Albany (NYS); Trenton Falls (Newn); Schoharie (Not); Catskills, Jl (Blk); West Pt. (Robn).

14310 **H. sphaericollis** Say. Mt. Whiteface, Jl (Ds); Rochester (M&W); Buffalo (Z&R); Olcott, Je (Dt); Portageville, Je (Ds); Rock City (Ds); Catskills, Jl (Blk); West Pt. (Ds).

14310a **H. sphaericollis** var. ? **ruficollis** Say. Olcott, May–Jl (Dt); Ringwood, Je (Dt); Catskills; W. Hebron; West Pt. (Robn); Ramapo, May; Ft. Montgomery.

CENTRODERA LeConte

14311 **C. decolorata** Harris. Barneveld, Oct (Yg); Sodus Bay (Blkm); Niagara (Lec); Buffalo (Z&R); Ellington, Je (Lg); Seneca Jct., Rock City, Je (Ds); Ithaca, Je (Lg), Jl (Dt–CU); Catskills (Pears); Binghamton (BM). On butternut and beech (Felt). Larva in oak, chestnut, and tulip poplar (Fisher).

14313 **C. picta** Hald. Rochester (M&W); Buffalo (Z&R); Portageville, Je (Ds); Rock City (Ds); Montour Falls (H); Taughannock Falls, Ringwood, May (Dt); West Pt. (Robn); Ramapo (AM); **SI**, Je, at light (Grossbeck); **LI** (Ds). On hickory (Felt, Bish).

STENOCORUS Fabricius [52]

(*Toxotus* LeConte)

14320 **S. cinnamopterus** Rand. "NY" (Lg Cat.).

14321 **S. schaumi** Lec. Newport (NYS); Batavia, Jl (Kngt); Buffalo (Rein); Danby, *Cy* (Flet); Cortland Co (Dnd); Catskills, Jl, *Pears*, very rare on dead beech (Nic); Shokan (Lg). On beech (Felt).

14321a **S. schaumi** var. **croceus** Lg. Wilmington, Aug (Ds).

14323 **S. trivittatus** Say. Mt. Whiteface, Jl (Ds); Cranberry L., Jl (Mund); Minerva, Jl 20, 1925, one specimen on milkweed flowers (*Frost*); Rochester (M&W); Ithaca (Philip Miller); Binghamton (BM); West Pt., Je (Ds); Croton, Je (Ds); Ft. Montgomery, May 30 (AM).

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[52] The larval habits of this genus are unknown (Fisher).

14324 **S. vittiger** Rand. West Pt. (Robn); Croton, Je (Ds); Ramapo (Sm).

14343 **S. cylindricollis** Say. Trenton Falls (Newn); Nyack (Zab); Van Cort. Pk., *Pears*.

PACHYTA Zetterstedt

14348 **P. rugipennis** Newn. Homadaga L., Essex Co, May, 1924, very rare (Frost); Cranberry L., three specimens on bark of dead spruce, Je (Htly).

EVODINUS LeConte

14349 **E. monticola** Rand. Axton (Houghton); Cranberry L., Je (Mund); Big Moose (NYS); Boston, Protection (Dnd); Buffalo (Rein); Portageville, Je (Ds); Ithaca, Je (Dt–CU); W. Danby, May, Tarbel, Je (Ds); Windsor, Je (Not); Schoharie (Not); Catskills, Je–Jl (Ds, Blk). Larva in hemlock (Fisher).

ACMAEOPS LeConte

14395 **A. directa** Newn. Adirondacks, Aug (Martin); Keene Val., Aug (BM); Rochester (M&W); Buffalo (Z&R); Holland, Allegany Pk. (Dnd); Ithaca, Jl (Dt–CU); Albany (NYS); New Baltimore (AM); Catskills, Aug (Ds); Elka Pk. (Blkm); Poughkeepsie, Je (NYS); Peekskill (AM); West Pt. (Robn); Nyack (Ds); Ramapo, Je (Ds).

14396 **A. pratensis** Laich. Axton (Houghton); Mt. Whiteface, Wilmington, Jl (Ds); Cranberry L., Je–Jl (Mund); Catskills (Pears).

14402 **A. cavicollis** Csy. Cranberry L., Je–Jl, bred from spruce and balsam (Mund).

14403 **A. proteus** Kby. Adirondacks (Shoe–NYS); Cranberry L., Je (Drk); Ithaca, Je (Dt–CU); **LI:** Yaphank, Je, Rockaway Beach, May (BM).

14405 **A. discoidea** Hald. **LI:** Wading R., May (Ds); Rockaway, Je (Shoe).

14406 **A. thoracicus** Hald. Mt. Whiteface, Jl (Shoe); Windsor, Je (Not); Big Ind. Val., Je (Shoe); West Pt. (Robn); Ramapo (Sm).

14407 **A. bivittatus** Say. Lewis Co, Jl (NYS); Rochester (NYS); Pike, Je (NYS); West Pt. (Robn).

14408 **A. nigripennis** Lec. West Pt. (Robn).

14409 **A. fusciceps** Lec. Cattaraugus Co (Lec), type.

GAUROTES LeConte

14411 **G. cyanipennis** Say. Mt. Whiteface, Jl (Ds); Cranberry L., Je, Aug (Mund); Geneva, Middlesex, Je, *Cls*; Avon, May, *Cls*; Olcott, Je (Dt); Buffalo, Je (Ds, Z&R); Ithaca, Je–Jl (Dt–CU); Groton, Je (Ds); Schoharie (Not); West Pt. (Robn); Croton, Je (Ds); Ramapo (Ds); **SI**, Je–Jl, on chestnut (L&D); **LI** (BM). Thirty-four more records (Lg). In butternut, oak, and birch (Felt). Larva in dogwood, sour gum, oak, wild cherry, walnut, and mulberry (Fisher).

14414 **G. abdominalis** Bland. Mt. Whiteface trail, Jl (Ds); Rochester (M&W); Allegany Pk. (Dnd); Catskills (BM); West Pt., in laurel blossoms, Je (Robn).

ANTHOPHILAX LeConte

14415 **A. attenuatus** Hald. Mt. Whiteface, Jl (Ds); Keene Hgts., Aug–Sep (Lg); Cranberry L., Je–Jl, on male flowers of red pine (Mund); Newport, on dead beech (Yg); Lewis Co, Jl (NYS); Holland (Frost); Catskills, May (Pears); Big Ind. Val., Jl (Shoe). Larva in beech, birch, maple, and poplar (Fisher).

14416 **A. malachiticus** Hald. Cranberry L. (Blkm); Rochester (M&W); Rock City, Je (Ds); Ithaca, Ringwood, Je (Dt–CU); Slide Mt., Jl (Lg); Catskills, May 30 (Knull Coll.); Big Ind. Val., Jl (Shoe); Ft. Montgomery (Brb).

14417 **A. viridis** Lec. Mt. Whiteface, Jl (Shoe); Slide Mt., Je (Ds); Cranberry L. (Mund); Big Ind. Val., Jl (Shoe). Larva in beech, birch, and maple (Fisher).

14417a **A. viridis** var. **viridipennis** Csy. Northern NY (Csy).

JUDOLIA Mulsant

14424 **J. sexmaculata** L. Long L. (Ds); Mt. Whiteface, Jl (Ds); Cranberry L., Je–Jl (Mund).

14426 **J. cordifera** Oliv. Cranberry L., Jl–Aug (Mund); Rochester (M&W); Canandaigua Center (NYS); Allegany Pk. (Dnd); Ithaca, Coy Glen, Ringwood, Je–Jl (Dt–CU); Albany (NYS); Catskills, Jl–Aug (Blk, Ds); Staatsburg, Je (Woodr); Callicoon, Jl (Ds); West Pt. (Robn); Stony Pt., Je (Ds); **SI,** Je–Jl, on flowers of New Jersey tea (L&D); **LI,** Je–Jl (Ds).

BRACHYLEPTURA Casey

14438 **B. rubrica** Say. Cranberry L., Jl–Aug (Mund); Saranac (Lg); Syracuse, bred from hickory (B&S); Geneva, Jl, *Cls*; Buffalo (Z&R); Ithaca, Je–Jl (Dt–CU); Albany (Yg); Catskills, Jl–Aug (Blk,Ds); North Branch (Schaupp); West Pt. (Robn); Mosholu (AM); **SI,** Je–Jl, on flowers of New Jersey tea (L&D); **LI:** Pinelawn, Aug, Wyandanch, Je (Ds). Twenty-five more records (Lg). Larva in a great variety of dead hardwoods and conifers (Fisher).

14441 **B. vagans** Oliv. Adirondacks; Old Forge (NYS); L. Pleasant (NYS); Cranberry L., Jl–Aug (Mund); Buffalo (Z&R); Canandaigua (NYS); Ithaca, Dec (Chitt); Buttermilk Cr., Jl (Dt–CU); Karner (NYS); Catskills, Jl–Aug (Blk, Ds); Calicoon, Jl (Ds); West Pt. (Robn); **SI,** bred from branch of pitch pine (L&D). In oak (Felt). Larva in decaying pine (Fisher).

14445 **B. circumdata** Oliv. Cranberry L., Je (Mund); Ithaca, Je (Dt); Catskills, Jl (Blk); West Pt. (Robn); **LI:** Wyandanch, Yaphank, Je (Ds).

14447 **B. canadensis** Fab. Wilmington, Aug (Ds, Dt); Keene Val., Aug (BM); Long L. (Ds); Tahawus, Aug (Lg); Cranberry L., Jl–Aug, bred from balsam and spruce (Mund); Saranac L. (Lg); Mt. Whiteface, 4000 ft., Aug (Dt); Syracuse (Blkm); E. Aurora (Dnd); Avon, Jl, *Cls*; Buffalo (Z&R); Albany, Jl (NYS); Catskills, Aug (Blk,Ds); Sullivan Co (Lg); North Branch (Schaupp). In spruce and hemlock (Felt). Larva in hemlock and pine (Fisher).

14447a **B. canadensis** var. **cinnamoptera** Hald. Cranberry L., Jl–Aug (Mund); Big Ind. Val., Aug (BM); Catskills (Blkm).

14448 **B. cribripennis** Lec. Buffalo (Z&R).

14450 **B. sanguinea** Lec. Cranberry L., Jl–Aug (Mund); Mt. Whiteface, Jl (Shoe); Catskills, Jl (AM); West Pt. (Robn).

14452 **B. lacustris** Csy. Cranberry L., Jl–Aug, bred from spruce (Mund).

PARALLELINA Casey

14455 **P. chalybea** Hald. Buffalo (Z&R); Ithaca, Je (Kngt).

14456 **P. exigua** Newn. (*saucia* Lec.). Newport, Je (NYS); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Ringwood, Je (Dt); Kenwood, Albany, Je (NYS); Schoharie (Not); Poughkeepsie, Je (NYS); Peekskill, May (Lg); West Pt. (Robn); Ft. Montgomery, May (Lg).

14457 **P. nana** Newn. Catskills, Jl (Blk); Trenton Falls (Newn).

14457a **P. nana** var. **haematites** Newn. Newport, Je (NYS); Rochester (M&W); Boston (Dnd); Buffalo (Z&R); Pike, Je (NYS); Portageville, Je (Ds); Ithaca, May–Je (Dt, Kngt); Trenton Falls (Newn); Catskills, Je (Pears); Mosholu, Je (BM); Elka Pk. (Blkm); West Pt. (Robn); Ft. Montgomery, May (AM); Bronx, May (AM); **SI,** May, on flowers (L&D); **LI:** Yaphank, Je (Ds).

14459 **P. subargentata** Kby. Plattsburg, Wilmington, Jl (Shoe); Rochester (M&W); Buffalo (Z&R); Allegany Pk. (Dnd); Catskills (Pears).

14459c **P. subargentata** var. **ruficollis** Prov. Castile, Je, *Brad* (Flet); Allegany Pk., Boston (Dnd); West Pt. (Robn).

14461 **P. similis** Kby. "Western NY," frequent (Dnd).

CHARISALIA Casey

14463 **C. americana** Hald. Albany, Jl (NYS).

14464 **C. capitata** Newn. Axton (Houghton); Cranberry L., Je (Mund); Rochester (M&W); Genesee Co, Je (Lg); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt–CU); Trenton Falls (Newn); West Pt. (Robn); NYC and vic. (AM).

STRANGALEPTA Casey

14465 **S. lineola** Say. Western NY, common (Dnd); Buffalo (Z&R); Portageville, Je (Ds); Rock City, Je (Ds); Ithaca, May–Jl (Dt); McLean, Ringwood, Jl (Dt); Windsor, Je (Not); Schoharie (Not); Catskills, Jl (Blk); West Pt. (Robn); Ft. Montgomery, May, Ramapo, Je (Ds); **SI,** May–Je, on flowers (L&D); **LI:** Yaphank, Je (Ds). Fifty-three more records (L). Larva in dead birch (Fisher).

14466 **S. pubera** Say. N. Elba, Jl (Ds); Mt. Whiteface, Jl (Ds); Cranberry L., Je (Mund); western NY, frequent (Dnd); Portageville, Je (Ds); Castile, *Brad* (Flet); Cattaraugus, Je (Ds); Ithaca, Je–Jl, Ringwood, Je, McLean, Jl (Dt); Schoharie (Not); Catskills, Jl (Blk); West Pt. (Robn); **SI,** May–Je, on flowers (L&D). Twenty-six more records (Lg).

14469 **S. vittata** Oliv. Long L. (Ds); N. Elba, Jl (Ds); Cranberry L., Je–Jl, bred from spruce and larch (Mund); Syracuse, Crittenden (Blkm); Olcott, Je–Jl (Dt); Genesee Co, Je; Buffalo (Z&R); Portageville, Je; Conesus L., Je; Geneva, Je, *Cls*; Ithaca, Je–Jl, McLean, Jl (Dt); Catskills, Jl–Aug (Blk); West Pt. (Robn); White Plains, Je (Frost,

Sq); Pine I., Je; Ft. Montgomery, Jl, Ramapo, Je; **SI**, May–Je, on flowers (L&D); **LI**: Wyandanch, Half Way Hollow Hills, Yaphank, Je–Jl (Ds). Sixty-seven more records (Lg). Larva in cedar, pine, fir, and chestnut (Fisher).

STRANGALIA Serville

14482 **S. subhamata** Rand. Adirondacks, Jl (NYS); Long L. (Ds); Cranberry L., Jl, on flowers (Mund); Minerva, Jl 20, 1925, on Spiraea flowers (*Frost*); Rochester (M&W); Buffalo (Z&R); Java, E. Aurora (Dnd); Pike (NYS); Ithaca, Je–Jl (Dt); Catskills, Aug (Ds); Sullivan Co (Schaupp). In hemlock, tamarack, and beech (Felt). Larva in dead pine and hemlock (Fisher).

14483 **S. elegans** Hald. Cranberry L., Jl–Aug, on flowers (Mund); Saratoga (Lec).

14484 **S. cruentata** Hald. Hastings, May–Je (Joutel); Ithaca, Je (Dt); West Pt. (Robn).

14487 **S. plebeja** Rand. Essex Co, Jl (Yg); Minerva, Jl 20, 1925, on Spiraea flowers (Frost); Cranberry L., Je–Jl, Sep, on flowers (Mund); Long L. (Ds); Catskills, Jl (Blk).

XESTOLEPTURA Casey

14493 **X. octonotata** Say. Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Ithaca, Je (Dt–CU); Poughkeepsie, Je (Yg); West Pt. (Robn); Mosholu, Je (Ds); Ramapo, Je (Ds); **SI**, Je, on flowers (L&D).

STROPHIONA Casey

14508 **S. nitens** Forst. (*zebra* Felt). Syracuse (Blkm); Olcott, Je (Dt); Buffalo (Z&R); Conesus L., Je (Ds); Geneva, Jl, *Cls*; Ithaca, Je (Dt); Catskills, Aug (Ds); West Pt. (Robn); Ft. Montgomery, Jl, Nyack, Ramapo, Je (Ds); **SI**, May–Je, on flowers (L&D); **LI**: Rockaway Beach, Je, Half Way Hollow Hills, Jl, Yaphank, Je (Ds). Thirty-eight more records (Lg). Larva in chestnut and oak (Fisher).

LEPTURA Linné

14514 **L. emarginata** L. Syracuse (Blkm); Buffalo (Z&R); Ithaca, Aug (E. A. Richmond, Philip Miller); Rensselaer, Je (NYS); West Pt. (Robn); Bronx, Jl (AM); **SI** (L&D). Larva in red oak (Joutel), elm (Felt), birch, beech, oak, sour gum, and tulip poplar (Fisher).

14516 **L. nigrella** Say. Cranberry L., Je–Jl (Mund); Oswego, L Placid, Je (NYS); Geneva, Je–Jl, *Cls*. w

14520 **L. chrysocoma** Kby. Adirondacks (Shoe, Not, Yg); Mt. Whiteface, Wilmington, N. Elba, Jl (Ds); Axton (Houghton); Cranberry L., Je–Jl, on flowers (Mund). Larva in pine (Fisher).

14525 **L. proxima** Say. Adirondacks, Je–Jl (Ds); Cranberry L., Je–Aug, on flowers (Mund); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Elka Pk., Aug (Drk); Conesus L., Je–Jl (Ds); Ithaca, Jl (Dt); Catskills, Jl–Aug (Blk, Ds); West Pt. (Robn); **SI**, on flowers (L&D). Twenty-nine more records (Lg). Larva in chestnut, maple, hickory,

and linden (Fisher). (Many specimens from Cranberry L. and the Catskills would fall under *L. minnesotana* Csy. if this be considered valid—Blkm.)

—— **L. kempiana** Csy. L. George (Csy).

14530 **L. biforis** Newn. Cranberry L., Je–Jl (Mund); Speculator, Jl (NYS); Syracuse, Onondaga Hill (Blkm); Sodus Bay, Jl (NYS); Rochester (M&W); Buffalo (Newn); Ithaca, Jl–Aug (Dt–CU); Helderbergs, Jl (NYS); Trenton Falls (Newn); Catskills (Lec, Pears); Elka Pk. (Blkm). Larva in chestnut (Fisher).

14531 **L. laurentica** Csy. "Northern NY" (Csy).

14532 **L. mutabilis** Newn. Axton (Houghton); Cranberry L., Je, bred from yellow and white birch (Mund); Syracuse, bred from alder (Blkm); E. Aurora, Allegany Pk. (Dnd); Castile, *Brad* (Flet); Portageville, Jl (Ds); Ithaca, Je–Jl (Dt); Windsor, Je (Not); Schoharie (Not); Catskills, Jl (Blk); West Pt. (Robn); Nyack, Je (Ds); **SI,** Je, on flowers, bred from blue beech and dogwood (L&D). Larva in oak, maple, chestnut, and birch (Fisher).

14532a **L. mutabilis** var. **luridipennis** Hald. Cranberry L., Je–Jl, cut from hemlock (Mund); Allegany Pk., scarce (Dnd); Elka Pk. (Blkm). Twenty-nine more records (Lg).

14533 **L. aspera** Lec. Catskills (Knull). Larva in dead birch (Fisher).

14534 **L. pedalis** Lec. Cranberry L., Je–Jl, on flowers (Mund); Mt. Whiteface, Jl (Ds); Newport, Old Forge, Je (NYS); Elka Pk. (Blkm).

BELLAMIRA LeConte

14537 **B. scalaris** Say. Cranberry L., Jl–Aug, cut from birch (Mund); Mt. Whiteface, Jl (Ds); Mt. Marcy, Jl (Ds); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (CU); Catskills, Jl (Blkm); Saratoga (Lec); West Pt., bred from poplar (Robn); Sullivan Co (Schaupp). Larva in many varieties of coniferous and hardwood trees (Fisher).

TYPOCERUS LeConte

14540 **T. zebra** Oliv. NY (Lg, Lec). On white oak (Felt).

14543 **T. velutina** Oliv. Cranberry L., Jl–Aug, on flowers (Mund); Syracuse, bred from hickory (B&S); Olcott, Je–Jl (Dt); Buffalo (Z&R); Elka Pk., Aug (Drk); Geneva, Jl, *Cls*; Ithaca, Jl–Aug (Dt); Karner, on scrub oak (Felt); Callicoon (Ds); Catskills, Jl–Aug (Blk); West Pt. (Robn); **SI,** Je–Aug, on roses (L&D); **LI:** Massapequa, Half Way Hollow Hills, Wading R., Yaphank, Jl–Aug (Ds). Larva in many varieties of coniferous and hardwood trees (Fisher).

14544 **T. acuticauda** Csy. Cranberry L., Jl–Aug, with preceding on flowers (Mund); Elka Pk. (Blkm).

14548 **T. lugubris** Say. Olcott, Je (Dt); Buffalo (Z&R); Greene Co, Jl (Lg); Ulster Co, Je (Lg); Bronx (AM); **SI,** Je–Jl (L&D).

OPHISTOMIS Thomson

14553 **O. famelica** Newn. Staatsburg, Je (Woodr); West Pt. (Robn); Bronxville, Je (Woodr); **SI,** Je–Jl, on flowers (L&D); **LI:** Wyandanch, Half Way Hollow Hills, Jl (Ds); Yaphank, Je (BM). Larva in decaying oak and yellow birch (Fisher).

14554 **O. acuminata** Oliv. Poughkeepsie, Je (NYS); Staatsburg, Je (Woodr); West Pt. (Robn); Ft. Montgomery, May 30 (Lg); Bronxville, Je (Woodr); Bronx (AM); **SI,** Je, on flowers (L&D); **LI:** Yaphank, Je–Jl (Ds). Bred from dead Viburnum stems (Fisher).

14556 **O. luteicornis** Fab. Rochester (M&W); Coy Glen, Ithaca, Jl–Aug (Dt–CU); Catskills, Jl–Aug (Blk); West Pt. (Robn); Ft. Montgomery, Jl (Ds); Callicoon (Ds); Stony Pt., Je (Ds); **SI,** Je–Aug, on flowers (L&D); **LI:** Wyandanch, Half Way Hollow Hills, Yaphank, Je–Jl (Ds). Thirty-five more records (Lg). Larva in decaying elm, beech, grape, and *Viburnum dentatum* (Fisher).

14560 **O. bicolor** Swed. **LI:** Yaphank, Jl (Ds). Larva in oak and maple (Fisher).

ENCYCLOPS Newman

14573 **E. coerulea** Say. Slide Mt., Jl (Knull); Egleston's Glen, L. Keuka, Je (Ds); Olcott, Je (Dt); Kenwood, Je (Yg); Buffalo (Z&R); Portageville, Je (Ds); Ithaca, Je (Kngt); Trenton Falls (Newn); Schoharie (Not); Big Ind. Val., Je–Jl (Shoe); West Pt. (Robn); **SI,** May 30, on flowers (L&D). Larva in walnut, sour gum, chestnut, maple, oak, and tulip poplar (Fisher).

DESMOCERUS Serville

14574 **D. palliatus** Forst. THE CLOAKED KNOTTY-HORN. Adirondacks (NYS); Syracuse (Blkm); Rochester (M&W); E. Aurora (Dnd); Buffalo (Z&R); Branchport, Je–Jl (NYS); Castile, Je, *Brad* (Flet); Elka Pk., Aug (Drk); Geneva, Je, *Cls*; Ithaca, Je–Sep, Cayuga Co (Dt–CU); Karner, Albany, Je–Jl (NYS); Big Ind. Val., Je–Jl (Shoe); New Baltimore (AM); Elka Pk. (Blkm); West Pt. (Robn, Ds); Pine I., Je (Ds); Nyack (AM); White Plains, May–Je (Frost, Sq); Bronxville, Je (Woodr); Van Cort. Pk. (AM); **SI,** Jl (L&D); **LI:** Elmhurst, Aug (Ds). Larva in roots of elder (Fisher).

NECYDALIS Linné

14580 **N. mellitus** Say Buffalo (Z&R); West Farms (AM). Larva in chestnut and oak (Fisher).

MOLORCHUS Fabricius

14584 **M. bimaculatus** Say. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Boston (Dnd); Pike, Je (NYS); Castile, *Brad* (Flet); Kenwood, Je (NYS); Aurora, Je (AM); Schuyler Co, Je (H); Ithaca, Je–Jl (Dt–CU); W. Danby, May (Ds); Poughkeepsie, Je (NYS); Peekskill, May (Sherm); West Pt., Je (Robn, Ds); Ramapo, Je (AM); Bronxville, May (Woodr); **SI,** May, bred from dogwood (L&D); **LI:** Yaphank, May (Ds). Larva in redbud, dogwood, chestnut, oak, grape, walnut, maple, and sweet gum (Fisher).

CALLIMOXYS Kraatz

14586 **C. fuscipennis** Lec. (*sanguinicollis* Oliv.). Rochester (M&W); Buffalo (Z&R); Aurora (AM); Ithaca, Je–Jl (Kngt, Dt–CU); Harford, Je (BM); Schoharie (Not); Catskills, Je–Jl (Shoe).

GONOCALLUS LeConte

14606 **G. collaris** Kby. "NY" (Lec); Portage (Frost). Larva in pine and spruce (Fisher).

PHYSOCNEMUM Haldeman

14608 **P. brevilineum** Say. Clinton, Oswego, Jl (NYS); Olcott, Je (Dt); Buffalo (Z&R, Dnd); Geneva, Jl, *Cls*; Ithaca, Jl (Dt–CU); Albany, Jl (NYS); West Pt. (Robn, Ds); West Farms (AM); **LI:** Yaphank, Je, in scarlet oak, Wading R., Je (Ds). Larva in elm (Fisher).

ROPALOPUS Mulsant

14612 **R. sanguinicollis** Horn. Mt. Whiteface (Ds); Saranac, Je (NYS); Syracuse (Blkm); Elka Pk., May (Drk); Big Ind. Val., Je (Ds); Catskills, *Pears* (Shoe).

HYLOTRUPES Serville

14613 **H. bajulus** L. Buffalo (Z&R); Yonkers, Je (NYS); West Farms (AM); Bronx (BM); **SI** (L&D); **LI:** Rockaway Beach, Jl (Ds); Moriches, damaging flooring of house (Zab). Larva in dry, seasoned wood of conifers, doing considerable injury to finished woods (Fisher).

ANOCOMIS Casey

14614 **A. lignea** Fab. Syracuse, from arbor vitae (Blkm); Buffalo (Z&R); West Pt. (Robn); **SI,** Mar, common on recently felled cedar, also Ap (L&D); **LI:** Rockaway Beach, May (BM); Orient, *Lath* (NYS). Larva in red cedar (Fisher).

MERIUM Kirby

14619 **M. proteus** Kby. "NY" (Lec). Larva in spruce (Fisher).

CALLIDIUM Fabricius

14620 **C. antennatum** Newn. Axton (Houghton); Cranberry L., Je–Jl (Mund); Old Forge, May–Je (NYS); St. Lawrence Co, Je (Drk); Rochester (M&W); Buffalo (Z&R); Karner, May–Je (NYS); Albany, May–Je (NYS); Elka Pk. (Blkm); West Pt. (Robn); **SI,** Ap, Je, larva lives in pine (L&D); **LI:** Rockaway Beach, May (Ds); Central Pk., common on dead pine, Ap (Eng); Long Beach, Wyandanch, May (BM). Bred in large numbers from a young dead pine at Karner (Felt). Larva in pine and spruce (Fisher).

14621 **C. schotti** Sf. **LI:** Huntington, Sep (Schott); Long Beach, May (BM). (*C. janthinum* of Buffalo list perhaps belongs here; also Mt. Whiteface, Jl, record by Mr. Davis, here or with the next.)

14622 **C. violaceum** L. Lowville, Jl (Ds); Keene Val., Je (BM); Mt. Whiteface, Jl (Shoe); Saranac (Woodr); Syracuse (Blkm); **LI:** Brooklyn (BM).

14625 **C. frigidum** Csy. Pine I., May (BM); NYC, from cedar introduced for rustic work, May (Frost); **LI:** Yaphank, May (Ds).

PHYMATODES Mulsant

14630 **P. amoenus** Say. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Albany, May–Je (NYS); West Pt. (Ds); Mosholu (AM); **SI,** May–Je, larva in dead grapevines (L&D); **LI:** Rockaway, Je (Shoe); Wading R., May (Ds); Yaphank, Long Beach, Montauk, May (BM).

14630a **P. amoenus** var. **hudsonicus** Csy. Type locality, NY (Lg).

14631 **P. lengi** Joutel. Egleston's Glen, L. Keuka (Ds); Coy Glen, Ithaca, Je (Ds); **SI,** Je (L&D); **LI** (BM).

14634 **P. testaceus** L. Buffalo (Ham); Ithaca, Je (Dt–CU); W. Hebron, Je (Lg); Ft. Montgomery, May 30 (Ds); West Farms (AM); **SI,** Je, larvae under bark of oak logs (L&D); **LI:** Babylon (AM).

14634 **P. testaceus** var. **variabilis** L. Buffalo (Z&R); West Pt. (Robn); Ft. Montgomery, May, Nyack, Je (Ds); **SI,** with *testaceus* (L&D). Twenty-eight more records (Lg). Larva mines in the inner bark of dead and dying oak (Felt).

14635 **P. aereus** Newn. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); Coy Glen, Ithaca, Je–Jl (Dt–CU); W. Hebron (Lg Coll.); Peekskill (Lg Coll.); West Pt. (Ds); Ramapo (Lg Coll.); **LI:** Rockaway (Sherm); Yaphank, Je (BM). Larva in chestnut and oak (Fisher).

14640 **P. dimidiatus** Kby. Adirondacks, May, Aug; Axton (Houghton); Mt. Whiteface, Jl (Ds); Cranberry L., Je–Jl (Mund); Syracuse, Crittenden, bred from larch (Blkm); Buffalo (Z&R); Catskills, Aug (Ds); Van Cort. Pk. (AM); **SI,** larva bores in oak (L&D); **LI:** Rockaway Beach, Je (BM). Emerging from spruce siding (Felt). Larva in spruce, hemlock, and larch (Fisher).

14646 **P. varius** Fab. Olcott, Je (Dt); Buffalo (Rein); W. Danby, May (Ds); Peekskill, Je (Rein); West Pt., Je (Robn, Ds); Ft. Montgomery, May (Ds); Nyack, Je (Rein, Ds); **SI,** larva bores in oak (L&D); **LI:** Wading R., May (Ds); Amagansett, May, Flatbush, Je (BM). Fitch also records variety *albofasciatus* Bland. Oak and hickory (Felt).

14650 **P. ater** Lec. Buffalo (Horn).

14655 **P. lividus** Rossi. **SI** (Joutel); **LI,** introduced (Lg).

CYLLENE Newman

14670 **C. caryae** Gahan (*picta* Horn). Rochester (M&W); Buffalo (Z&R); Ithaca, Je–Jl (Dt–CU); L. George (AM); Albany, Je, Aug (NYS); West Pt. (Robn); Katonah, Nyack (AM); NYC, Jl (Woodr); **SI,** May, larva in hickory (L&D); **LI** (AM). Larva in hickory (Fisher).

14671 **C. robiniae** Forst. (*pictus* Drury). LOCUST BORER. Oswego (NYS); Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Geneva, Avon, *Cls*; Ithaca, Sep (CU); Utica (Fitch); Karner, Albany (NYS); Stuyvesant (NYS); Poughkeepsie, Sep (NYS); West Pt. (Robn); White Plains, Aug–Sep (FrostSW, Sq); Westchester Co (Woodr); **SI,** Aug, Oct, larva in locust (L&D); **LI:** Brooklyn (Blkm); Patchogue, Yaphank, Sea Cliff, Sep (Ds); Orient, Nov, *Lath* (Ds). Thirteen more records (Lg). Larva in locust, often injurious.

ARHOPALUS Serville

14672 **A. fulminans** Fab. Syracuse (Blkm); Buffalo (Z&R); Portage, Jl (NYS); Geneva, Je, *Cls*; Ithaca, Je–Aug (Dt–CU); W. Hebron, Je (Lg); West Pt. (Robn); Westchester, Jl (NYS); Nyack, Je (Lg); **SI,** Je–Jl, larva in chestnut (L&D); **LI:** Je (Ds); Flatbush; Rockaway Beach, Je (BM). Larva mines inner bark and sapwood of chestnut and oak (Felt).

GLYCOBIUS LeConte

(*Plagionotus* LeConte not Mulsant)

14673 **G. speciosus** Say. SUGAR-MAPLE BORER. Mt. Whiteface, Jl (Ds); Delano (NYS); Glens Falls (NYS); Fulton (Felt); Syracuse (NYS, Blkm); Rochester (M&W); Batavia (NYS); Buffalo (Z&R); E. Aurora (Dnd); Castile, *Brad* (Flet); Williamsville (NYS); Freeville, Jl (Ds); Elmira, Je (Diven); Canajoharie (NYS); Albany, Jl (NYS); Ballston, Je, Stuyvesant Falls (NYS); Rensselaer, Je (Woodr); Schoharie (NYS); Adams (NYS); Mt. Riga (NYS); White Plains, Jl (Frost, Sq). Breeds in sugar maple, often injurious.

CALLOIDES LeConte

14674 **C. nobilis** Harris. Gloversville (NYS); Syracuse (Blkm); Buffalo (Z&R); Geneva, Je–Jl, Lodi, Jl, *Cls*; Ithaca, Je (CU); Albany (NYS); West Pt. (Robn); Greenwood L., Nyack (AM); **LI:** Rockaway Beach, Je (Ds); Wyandanch, Jl (Ds); Forest Pk., Je (BM). Larva in oak (Fisher).

XYLOTRECHUS Chevrolat

14679 **X. colonus** Fab. RUSTIC BORER. Cranberry L., Je–Jl, yellow birch (Mund); St. Lawrence Co, Jl (Dnd); Syracuse (Blkm); Buffalo (Z&R); E. Aurora (Dnd); Castile, Je, *Brad* (Flet); Avon, Geneva, Je, Aug, *Cls*; Cattaraugus Co, Je (Ds); Ithaca, Jl–Aug (Dt); W. Hebron (Ds); Elka Pk. (Blkm); West Pt. (Robn); White Plains, Jl (FrostSW, Sq); **SI,** Je, Aug, larva in many hardwood trees (L&D). Forty-four more records (Lg). Larva in nearly all hardwoods, and has been recorded from hemlock (Fisher).

14680 **X. sagittatus** Germ. Buffalo (Z&R); Ithaca (Dt–CU); Rensselaer (NYS); Catskills, May–Je (Nic); West Pt., Je (Ds); Nyack, Aug–Sep (AM); **LI:** Wading R., Jl (Ds); Flatbush, Aug–Sep (AM); Yaphank, Sep (BM). Larva in pine, spruce, and fir (Fisher).

14683 **X. quadrimaculatus** Hald. Cranberry L., on yellow birch logs (Htly); Buffalo (Z&R); E. Aurora (Dnd); Big Ind. Val., Jl (Pears); **SI,** Jl (L&D). Larva in birch, beech, and alder (Fisher).

14684 **X. aceris** Fisher. **SI,** Jl (L&D); **LI** (Sf). Larva in red, silver, and sugar maple (Fisher).

14691c **X. undulatus** Say var. **fuscus** Kby. Keene Val., Jl (BM); Cranberry L., May–Jl, bred from larch and spruce (Mund); Big Moose, Jl–Aug (Felt); Lewis Co, Jl (NYS); Buffalo (Z&R); Big Ind. Val., Je (BM); Elka Pk. (Blkm); West Pt. (Robn). Larva in fir and hemlock (Fisher).

14691e **X. undulatus** Say var. **interruptus** Cast. Cranberry L., Jl (Drk); Ithaca, Jl (Dt–CU); Catskills, Jl (AM).

14696 **X. convergens** Lec. Buffalo (Rein). Larva in dead thorn, *Crataegus* sp. (Fisher).

NEOCLYTUS Thomson

14701 **N. longipes** Drury (*angulatus* Fab., *rhombifer* Oliv.). Has been recorded from NY. Record probably based on West Indian individuals hatching from imported timber.

14703 **N. scutellaris** Oliv. NY (Lec); **LI:** Long Beach, Jl (Frost); Coney I., Je (BM). On hickory, elm, and grape (Felt). Larva in white oak (Fisher).

14704 **N. mucronatus** Fab. (*luscus* Fab.). Buffalo (Z&R). Larva in hickory (Felt).

14707 **N. caprea** Say. Scottsville, injurious to black ash (Felt); West Pt. (Robn); West Farms (AM). Larva in ash and oak (Fisher).

14708 **N. kirbyi** Auriv. (*longipes* Kby.). Wanakena, Crittenden, bred from larch (B&S). Larva in oak (Fisher).

14713 **N. muricatulus** Kby. Essex Co, Jl (NYS); Cranberry L., bred from larch, Je–Jl (Mund); Syracuse, Crittenden, bred from larch (Blkm); Buffalo (Z&R). Larva in spruce, larch, and pine (Fisher).

14717 **N. acuminatus** Fab. (*erythrocephalus* Fab.). Cranberry L., Je (Mund); Syracuse, from hickory (Blkm); Honeoye Falls (Ds); Buffalo (Z&R); E. Aurora (Dnd); Castile, Je, *Brad* (Flet); Schuyler Co, Je (H); **SI,** Je–Jl, common on various hardwoods (L&D); **LI,** Je–Jl, Sep (Ds). Forty-nine more records (Lg). Larva in a great variety of hardwoods (Fisher).

EURYSCELIS Chevrolat

14726 **E. suturalis** Oliv. Brooklyn, undoubtedly from imported wood, being a native of the West Indies (Lg).

ANTHOBOSCUS Chevrolat

(*Clytanthus* Thomson)

14728 **A. ruricola** Oliv. Adirondacks, Je–Aug (Blk); Cranberry L., Je, Aug (Mund); Wanakena, Aug (Drk); Syracuse, Jl–Aug (Blk); western NY (Dnd); Olcott, Je–Jl (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Conesus L., Je–Aug (Ds); Port Byron, Cayuga Co, Je (Dt); Geneva, Je, *Cls*; Ithaca, Je–Jl (Dt–CU); Catskills, Je–Aug (Ds); West Pt. (Robn); **LI:** Wading R., May (Ds). Thirty-seven more records (Lg). Larva in maple, hickory, birch, and beech (Fisher).

CLYTOLEPTUS Casey

14730 **C. albofasciatus** Lap. "NY" (AM); Cranberry L., Jl (Mund); **LI** (BM). Larva in dead grape (Fisher).

CLYTUS Laicharteg

14734 **C. marginicollis** Cast. "NY" (Lg); Cranberry L., one specimen, Jl. This is a southern species and may have emerged from southern lumber shipped in (Blkm). Breeds in pine (Fisher).

MICROCLYTUS LeConte

14739 **M. gazellula** Hald. Boston (Dnd). Occurs in Canada, Ohio, and Pa. (Journ. NY. Ent. Soc. 26:8 (Lg). Larva in oak and hickory (Fisher).

14740 **M. gibbulus** Lec. (*insinuans* Csy.). "NY" (Hald); Adirondacks (Not). On oak (Felt).

CYRTOPHORUS LeConte

14741 **C. verrucosus** Oliv. Onondaga Co, May (H); Buffalo (Z&R); E. Aurora (Dnd); Rock City, Je (Ds); Castile, *Brad* (Flet); Middlesex, Je, *Cls*; Ithaca, May–Jl (Dt–CU); Windsor, Je (Not); Schoharie (Not); Big Ind. Val., May (BM); West Pt. (Robn); **SI**, Je (L&D); **LI**: Yaphank, Central Pk., May (Ds); Amagansett, May (BM). Twenty-two more records (Lg). Bred from various hardwood limbs at Syracuse (B&S). Larva in dogwood, maple, birch, spicebush, persimmon, pear, cherry, blue beech, and redbud (Fisher).

EUDERCES LeConte

14745 **E. picipes** Fab. Adirondacks, May, Jl (Ds); Syracuse, Je (Drk); Rochester (M&W); Olcott, Je–Jl (Dt); Buffalo (Rein); Portageville, Je (Ds); Avon, Je, Waterloo, Je, Geneva, Je–Jl, *Cls*; Conesus L., Je (Ds); Allegany Pk. (Dnd); Ithaca, Je–Jl (Dt–CU); Schoharie (H); W. Hebron, Je (Lg); Pine I., Je (Ds); West Pt. (Robn); Ft. Montgomery, May, Jl (Ds); Bronx Pk., Je (Ds); **SI**, Je, common on flowers (L&D). Fifty more records (Lg). Bred from hickory, chestnut, beech, and linden, at Syracuse (B&S). Larva in a great variety of hardwoods—chestnut, hickory, oak, redbud, hackberry, walnut, locust, sour gum, pear, and dogwood (Fisher).

14746 **E. pini** Oliv. NYC, Mar (Woodr).

TILLOCLYTUS Bates

14750 **T. geminatus** Hald. West Pt. (Robn); **SI**, May–Je (L&D); **LI**: Bellport, Je (Nic); Brooklyn, May 27 (Shoe); Amagansett, May (BM). On white oak (Felt). Larva in oak, hickory, grape, dogwood, and sour gum (Fisher).

STENOSPHENUS Haldeman

14757 **S. notatus** Oliv. Syracuse, from hickory (B&S); Poughkeepsie, May (Yg); West Pt., Je (Ds); West Farms, Nyack (AM); **LI**: Half Way Hollow Hills, Jl, Rockaway, May (Ds); Yaphank, May (BM). Breeds in dead limbs of hickory (Felt).

ATIMIA Haldeman

14772 **A. confusa** Say. Syracuse (Blkm); West Pt. (Robn). In cedar and pine (Felt). Two broods of adults each year in the southern States, one in the spring and the other in the early fall (Fisher).

ELYTROLEPTUS Duges

14777 **E. floridanus** Lec. **LI:** Yaphank, Central Pk., on *Quercus nana* (Ds); Pinelawn, Huntington, Bellport, Wading R. (Schott, Nic, Shoe, Ds).

TRAGIDION Serville

14792 **T. coquus** L. **LI:** Yaphank, Sep, Riverhead, Aug (Ds); Coram (Eng); Rockaway, Sep (Shoe, Schmelter); Coney I. (Schmelter); Jamaica (Nic). Larva in oak (Felt).

PURPURICENUS Germar

14795 **P. humeralis** Fab. Mt. Whiteface, Jl (Ds); Syracuse (Blkm); Geneva, Jl, *Cls*; Croton, Jl (Ds); Albany (NYS); West Pt. (Robn); **SI,** Je (L&D); **LI,** Je (Shoe, Woodr); Rockaway, Je (Ds). Larva in oak, chestnut, and birch (Fisher).

14796 **P. axillaris** Hald. Syracuse, bred from hickory (B&S); vic. NYC (AM). Larva in oak and chestnut (Fisher).

BATYLEOMA Casey

14857 **B. suturale** Say. Karner, Je, on pine (Felt); Mosholu, Jl (AM); Garrison, Jl (AM); Peekskill (Sherm); West Pt., Jl (BM); Ft. Montgomery, Yonkers, Jl (AM); **SI,** Jl–Aug (L&D); **LI,** Jl (Shoe). Larva in chestnut, oak, and hickory (Fisher).

CYRTINUS LeConte

14893 **C. pygmaeus** Hald. Buffalo (Z&R); Westchester Co (AM); **SI,** Je (L&D); **LI,** Jl (Shoe, Ds); Yaphank, Jl (Ds); Greenport, Aug (Ds); Bellport, Jl (Nic). In oak, hickory, box elder, and locust (Felt). Larva in maple, locust, dogwood, hickory, oak, and tulip poplar (Fisher).

PSENOCERUS LeConte

14894 **P. supernotatus** Say. Plattsburg, Jl (Ds); Cranberry L., Jl (Drk); Rochester (M&W); Olcott, May–Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Batavia, Je (Ds); Castile, Je, *Brad* (Flet); Ithaca, Je–Jl (Dt–CU); Windsor, Je (Not); West Pt. (Robn); **SI,** May–Jl (L&D); **LI,** May–Je, *Shoe* (Ds). Thirty more records (Lg). On dogwood (Felt). Injurious to stems of currant (Lg). Larva in elm, tulip poplar, willow, Virginia creeper, and currant (Fisher).

MONOCHAMUS Serville

14895 **M. titillator** Fab. Cranberry L., Je (Mund); Syracuse (Blkm); Buffalo (Z&R); West Pt. (Robn); **SI,** Je–Aug, on pine (L&D); **LI:** Rockaway Beach, Je, Yaphank, Jl (Ds). Twenty-two more records (Lg). Larva in pine (Fisher).

14901 **M. notatus** Drury (*confusor* Kby.). THE SAWYER. Cranberry L., Jl–Aug, under spruce bark (Mund); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Je–Jl (CU); L. George (BM); Elka Pk (Blkm); West Pt. (Robn); Westchester (Ds); **SI,** Aug, on pine (L&D). Thirty more records

(Lg). Injurious to pine, spruce, and balsam (Felt). Larva in pine (Fisher).

14904 **M. scutellatus** Say. WHITE SPOTTED SAWYER. Axton (Houghton); Mt. Whiteface, Jl (Ds); Long L., Wilmington, Aug (Ds); Cranberry L., Je–Jl, common in balsam (Mund); Syracuse (Blkm); Buffalo (Z&R); Elka Pk. (Drk); Ithaca, Je–Jl (Dt); Greene Co (Drk); Catskills, Je–Sep, in spruce and larch (B&S); West Pt., bred from white pine (Robn); **SI,** Je, on pine (L&D). Thirty more records (Lg). Larva in pine and spruce (Fisher).

14905 **M. marmorator** Kby. Wilmington, Aug (Dt); St. Lawrence Co (Drk); Mt. Whiteface, Aug (Dt); Cranberry L., Je, from dead balsam (Mund); Elka Pk. (Blkm). Larva in balsam fir (Fisher).

DORCHASCHEMA LeConte

14909 **D. alternatum** Say. **SI,** Je–Aug, on osage orange and mulberry (L&D). Larva in mulberry (Fisher).

14910 **D. nigrum** Say. Syracuse, Je–Jl, bores in hickory limbs (B&S); Rochester (M&W); Buffalo (Z&R); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine I., Je, on hickory (Ds); Nyack, Je (Ds); **LI,** Jl (BM). Larva in hickory (Fisher).

HETOEMIS Haldeman

14911 **H. cinerea** Oliv. Syracuse, Je–Jl, from hickory (B&S); Poughkeepsie, Jl (NYS); Peekskill (Sherm); Pine I., on hickory (Ds); **SI,** Jl (L&D). Bred from osage orange, mulberry, and hickory (Hamilton). On walnut (Felt). In linden and hackberry (Fisher).

CACOPLIA LeConte

14912 **C. pullata** Hald. Rochester (M&W); Buffalo (Z&R). On oak (Felt).

HAMMODERUS Thomson

14915 **H. tessellatus** Hald. **SI,** Jl, on oak shoots (Linell). Larva in oak, chestnut, and shadbush (Fisher).

GOES LeConte

14917 **G. tigrinus** DeG. Syracuse (Blkm); Buffalo (Z&R); Ithaca, Jl (Fisher–US); West Pt. (Robn); Bronx, Jl (AM); **SI,** Jl, on oak (L&D); **LI:** (Shoe); Jamaica, Jl–Aug (Pears). Larva in hickory, oak, and walnut (Felt).

14918 **G. pulcher** Hald. Rochester (M&W); Buffalo (Z&R); Menands, Jl (NYS); West Pt. (Robn); Nyack (AM); West Farms (AM); **SI,** Jl–Aug, on hickory (L&D); **LI:** Je (Ds); Flatbush, Je (BM). Larva in hickory (Fisher).

14919 **G. pulverulentus** Hald. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Ithaca, Jl, on black oak (CU); Saratoga (Lec); Albany, Je (NYS); West Pt. (Robn); Ramapo, Jl (Ds); **SI,** Jl (L&D); **LI:** Brooklyn, Jl, on scarlet oak (Shoe); Wyandanch, Jl (Schott). In oak, ironwood, hornbeam, beech, and wild cherry (Wickham). Larva in elm, sycamore, blue beech, and ironwood (Fisher).

14921 **G. laurenticus** Csy. "Northern NY" (Csy).

14922 **G. debilis** Lec. Rochester (M&W); Buffalo (Z&R); Albany, May (Yg); North Castle (AM); **LI:** Bellport, Jl (Nic); Brooklyn, Je–Jl, on oak trees (Shoe). Larva in oak (Fisher).

MICROGOES Casey

14923 **M. oculatus** Lec. Mt. Whiteface, Jl (Ds); Cranberry L., Je–Jl, bred from maple (Mund); Rochester (M&W); Buffalo (Z&R); Ithaca, Je–Jl (Dt); L. Henderson, Aug (Lg); Catskills (Pears); Big Ind. Val., Jl (Shoe). Larva in dogwood, chestnut, and beech (Fisher).

PSAPHAROCHRUS Thomson [53]

14931 **P. quadrigibbus** Say. Rochester (M&W); Katonah, Aug (AM); **LI:** (Lg); New City, Jl (Frost). Larva in many varieties of hardwoods (Fisher).

AEGOMORPHUS Haldeman [54]

14932 **A. decipiens** Hald. Syracuse, Je, bred from hickory (B&S); Rochester (M&W); Lake Bluff, Jl (NYS); Buffalo (Z&R); Cattaraugus Co, Jl (Ds); Karner, May (NYS); West Pt. (Robn); **SI,** Je, reared from hickory and maple (L&D); **LI:** Je–Jl (Shoe); Yaphank, Jl–Aug (Ds). Larva in many varieties of hardwoods (Fisher).

LEPTOSTYLUS LeConte

14943 **L. aculifer** Say. Buffalo (Z&R); West Pt. (Robn); **SI** (L&D); **LI:** Jamaica (Pears). Larva in apple, elm, walnut, hickory, dogwood, tulip poplar, Rhus, and redbud (Fisher).

14954a **L. collaris** Hald. var. **interruptus** Hald. "NY" (Guex); West Pt. (Robn); Bronxville, Jl (Woodr). Larva in chestnut (Fisher).

14957 **L. biustus** Lec. **SI** (L&D); **LI:** Aug–Sep (Ds); Brooklyn, Jl (Shoe); Jamaica, Jl (Pears); Shelter I., Aug, Orient, Sep (Ds); Greenport, Aug (BM). Larva in hackberry, mulberry, and Rhus (Fisher).

ASTYLOPSIS Casey

14960 **A. macula** Say. Mt. Whiteface, Jl (Ds); Cranberry L., Jl–Aug, bred from maple (Mund); Syracuse (Blkm); Rochester (M&W); Olcott, Jl–Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt); W. Hebron, Je (Lg); Big Ind. Val., Aug (BM); West Pt. (Robn); Pine I., Je (Ds); Ft. Montgomery, May (Ds); **SI,** Je–Jl (L&D); **LI:** Half Way Hollow Hills, Yaphank, Jl (Ds). Larva in apple, elm, hickory, dogwood, chestnut, etc. (Fisher).

14961 **A. guttata** Say (*sexguttata* Say, *commixta* Hald.). Cranberry L., Jl (Mund); Syracuse, bred from pine (Blkm); Rochester (M&W); Crittenden (Blkm); Olcott, Aug (Dt); Buffalo (Z&R); West Pt. (Robn); White Plains, Je (Frost,Sq); **SI,** Je–Jl (L&D); **LI:** Wading R., Jl (Ds); Oakdale, Aug (BM). Bred from larch (Blk). Larva in pine and spruce (Fisher).

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[53] Formerly included in Acanthoderes.
[54] Formerly included in Acanthoderes.

ASTYLIDIUS Casey

14963 **A. parvus** Lec. "NY" (Lg). Larva in bittersweet, mulberry, poison ivy, and box elder (Fisher).

LEIOPUS Serville

14968 **L. variegatus** Hald. Wilmington, Jl (Shoe); Syracuse, Jl (Drk); Rochester (M&W); Buffalo (Z&R); Pike, Jl (NYS); Albany, Jl (NYS); West Pt. (Robn); Van Cort. Pk. (AM); **SI,** Je, Aug (L&D); **LI:** Yaphank, Jl (Ds). Larva in many varieties of hardwoods (Fisher).

14971 **L. crassulus** Lec. W. Hebron, Je (Lg); Callicoon, Jl, on willow (Schaupp); Catskills, Je (Pears); **SI,** Jl (L&D); **LI:** Yaphank, Jl (Ds).

14975 **L. punctatus** Hald. Karner, Je (NYS); **SI** (L&D); **LI:** Je–Jl (Ds); Half Way Hollow Hills, Yaphank, Riverhead (Ds). Larva in Virginia creeper, dogwood, and plum (Fisher).

14976 **L. fascicularis** Harris. Ithaca, Sep (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Bronxville, Je (Woodr); **SI** (L&D); **LI:** Brooklyn, Jl (Shoe).

14979 **L. vicinus** Hald. "NY" (Fitch).

14983 **L. obscurellus** Csy. Northern NY (Csy).

14984 **L. cinereus** Lec. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); **LI,** Je–Jl, *Nic* (Schaupp).

14985 **L. alpha** Say. Syracuse, bred from hickory (B&S); Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Jl (Dt); West Pt., Je (Ds); Pine I., Je (Ds); **SI,** Je–Aug, hatched from sumac (L&D); **LI,** Jl–Aug, widely distributed (Ds). Twenty-seven more records (Lg). Larva in many varieties of hardwoods (Fisher).

LEPTURGES Bates

14994a **L. confluens** Hald. var. **angulatus** Lec. Buffalo (Z&R); Big Ind. Val., Je–Jl (Shoe); Mosholu (BM).

14995 **L. symmetricus** Hald. Cranberry L., Jl (Mund); Newport, Je (Yg); Rochester (M&W); Buffalo (Z&R); Pine I., Je (Ds); Van Cort. Pk. (Pears); **SI,** Je (L&D). Larva in walnut, hickory, chestnut, hackberry, mulberry, linden, and box elder (Fisher).

14998 **L. signatus** Lec. Rochester (M&W); Olcott, Je, Aug (Dt); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt); Coy Glen, Aug (Dt); W. Hebron, Je (Lg); West Pt. (Robn); Big Ind. Val., Je–Jl (Shoe); Bronxville, Je–Jl (Woodr); **SI,** Je–Aug (L&D); **LI,** Je (BM). Larva in maple, beech, mulberry, poison ivy, box elder, and hickory (Fisher).

14999 **L. tenebrosus** Csy. Northern NY (Csy).

15001 **L. querci** Fitch. Syracuse, bred from hickory, oak, butternut, and redbud (B&S); E. Aurora (Dnd); Olcott, Jl–Aug (Dt); Buffalo (Z&R); Avon, Je, *Cls*; Ithaca, Aug (Dt); W. Hebron, Je (Lg); West Pt. (Robn); White Plains, Je–Jl (Frost,Sq); Pine I., Je (Ds); Nyack, Je (Ds); **SI,** Je, Jl, Aug (L&D); **LI:** Aqueduct, Yaphank, Jl, Greenport, Aug (Ds). Larva in chestnut, walnut, apple, bittersweet, oak, elm, butternut, ironwood, poison ivy, and linden (Fisher).

15003 **L. facetus** Say. Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); Mosholu (BM); Van Cort. Pk. (AM); **SI** (L&D). Larva in *Crataegus Crus-galli* (Fisher).

HYPERPLATYS Haldeman

15005 **H. maculata** Hald. Plattsburg, Jl (Ds); Mt. Whiteface, Jl (Ds); Cranberry L. (Mund); Syracuse (Blkm); Rochester (M&W); Olcott, Jl–Aug (Dt); Erie Co (Dnd); Ithaca, Je (Dt–CU); Albany (Lint); Karner, Je (Yg); near Athens, Je (Yg); Bronxville, Jl (Woodr); Bronx (BM); **LI:** Brooklyn, Je–Jl (Shoe); Greenport, Jl (BM). Bred from dead twigs of oak and other trees (Felt). Larva in Rhus, locust, dogwood, walnut, box elder, and sumach (Fisher).

15011 **H. nigrella** Hald. Mt. Whiteface, Slide Mt., Jl (Shoe); Bronxville, May (Woodr); **SI** (L&D).

15013 **H. variolata** Csy. NY, type locality (Lg Cat.).

15015 **H. binocularis** Csy. NY, type locality (Lg Cat.).

15016 **H. aspersa** Say. Syracuse (B&S); Olcott, Jl–Aug (Dt); Erie Co (Dnd); Buffalo (Z&R); Castile, *Brad* (Flet); Wyoming Co, Je (Ds); Avon, Je, Geneva, Jl, *Cls*; Ithaca, Aug (Dt); West Pt. (Robn); Ft. Montgomery, Jl (Ds); West Plains (Fall, Sq); **SI,** Je–Jl, Sep, hatched from hickory, chestnut, poplar, apple; currant also given as food plant (L&D); **LI:** Shelter I., Aug (Ds); Aqueduct, Half Way Hollow Hills, Jl, Wading R., Je, Yaphank, Sep (Ds). Thirty more records (Lg). Larva in chestnut, currant, willow, butternut, dogwood, and wild cherry (Fisher).

CERATOGRAPHIS Gahan

15020 **C. biguttatus** Lec. "NY" (Lec); Ithaca, Je 12, 1915 (Dt).

GRAPHISURUS Kirby

15021 **G. fasciata** DeG. Cranberry L., Je, larva in yellow birch, Jl, from dead spruce, cedar, beech (Mund); Syracuse, bred from hickory (B&S); Olcott, May–Aug (Dt); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Je–Jl (Dt); Mosholu, May (Ds); West Pt. (Robn); NYC, Sep (Brb); **SI,** Je–Sep, hickory, oak, chestnut, and maple (L&D); **LI:** Aqueduct, Jl (Ds). Twenty-five more records (Lg). An oak and pine borer (Felt). Larva in a variety of hardwoods (Fisher).

15021a **G. fasciata** var. **reducta** Csy. NY, type locality.

15022 **G. hebes** Csy. NY, type locality (Lg Cat.); Syracuse (Blkm). Larva in hickory (Fisher).

15023 **G. triangulifera** Hald. Whiteface Mt., Je (Shoe); **LI:** Aqueduct, Jl (Shoe). Bores in hackberry (Felt, quoting Packard). Larva in hackberry (Fisher).

ACANTHOCINUS Stephens

15024 **A. obsoletus** Oliv. Buffalo (Z&R); Karner (NYS); West Pt. (Robn); Nyack (Zab); **LI:** Bellport, Jl (Nic); Rockaway, Jl (Shoe); Ronkonkoma, Aug (US).

15026 **A. pusillus** Kby. Severance, Jl (NYS); Cranberry L., Je–Jl, bred from spruce and hemlock (Mund); Buffalo (Z&R); Albany, Jan (NYS).

15034 **A. nodosus** Fab. Geneva, Je–Aug, *Cls*; **LI:** Bay Shore, Aug 25, 1910, at light (Ols). Larva in pine (Fisher).

DECTES LeConte

15037 **D. spinosus** Say. Rochester (M&W); Buffalo (Z&R); Kenwood, Je (Yg); Pine I., Je (Ds); Mosholu (BM); **SI,** breeds in stems of ragweed and Xanthium? (L&D); **LI:** Amagansett, Aug (BM). Larva in living stems of ragweed, Eupatorium, and Xanthium (Fisher).

15041 **D. brevis** Csy. **LI,** type locality (Lg Cat.).

HOPLOSIA Mulsant

15047 **H. nubila** Lec. Mt. Whiteface, Jl (Ds); Syracuse, bred from basswood (Blkm); Buffalo (Z&R); E. Aurora (Dnd); Big Ind. Val., Je (Shoe); West Pt. (Robn); West Farms (AM). On basswood twigs (Felt). Larva in linden (Fisher).

POGONOCHERUS Latreille

15049 **P. penicillatus** Lec. Mt. Whiteface, Jl (Ds); Cranberry L., Je (Mund); Syracuse, bred from spruce twigs (Blkm). On sumac (Felt). Larva in spruce (Fisher).

15053 **P. parvulus** Lec. Buffalo (Z&R).

15054 **P. salicicola** Csy. Ithaca, Je (Dt). Larva in willow (Fisher).

15056 **P. mixtus** Hald. Mt. Whiteface, Jl (Ds); Saranac, Feb, Aug (NYS); Cranberry L., Jl (Drk); Syracuse, Crittenden, bred from white pine and larch (B&S); Rochester (M&W); Buffalo (Z&R); Ithaca, Jl (CU); Karner, Jl (NYS); W. Hebron, Je (Lg); West Pt. (Robn); **SI,** Je (L&D); **LI:** Massapequa, Jl (Shoe); Rockaway, Je, Aug (Woodr); Yaphank, Long Beach (BM). On hard pine and willow (Felt). Larva in spruce and pine (Fisher).

ECYRUS LeConte

15067 **E. dasycerus** Say. Rochester (M&W); Buffalo (Z&R); Ithaca, Jl–Aug (Dt); L. George (Zab); West Pt. (Robn); Ft. Montgomery, Jl (Ds); **SI,** Je, on hickory, tulip, and locust (L&D); **LI:** Aqueduct, Central Pk., Half Way Hollow Hills, Yaphank, Jl (Ds). Larva in locust, hickory, and oak (Fisher).

EUPOGONIUS LeConte

15069 **E. tomentosus** Hald. Wilmington, Je (Lg); Rochester (M&W); Buffalo (Z&R); Westfield, Je (NYS); Mosholu (BM); **LI:** Riverhead, Aug (Ds); Bellport, Jl (Nic); Flatbush, Jl (Zab); Rockaway Beach, Je (BM). Larva in pine and spruce (Fisher).

15070 **E. vestitus** Say. Syracuse, Jl (Drk); Rochester (M&W); Buffalo (Z&R); E. Aurora, one only, rare (Dnd); Mosholu (AM); Pine I., Je (Ds); **SI,** Jl, dogwood, hickory, walnut, chestnut (L&D); **LI:** Jamaica (Pears); Aqueduct, Jl (Shoe); Greenport, Aug (BM). Larva in walnut, dogwood, mulberry, ash, redbud, maple, honey locust, poison ivy, elm, linden, and oak (Fisher).

15072 **E. subarmatus** Lec. Rochester (M&W); Buffalo (Z&R); E. Aurora, rare (Dnd); Catskills (Pears); Nyack, on linden (Lg). Larva in linden (Fisher).

LYPSIMENA LeConte

15075 **L. fuscata** Lec. "NY" (Lec).

ONCIDERES Serville

15088 **O. cingulatus** Say. Buffalo (Z&R); Ithaca, Aug (Dt); Coy Glen, Fall Cr., Aug (Dt); West Pt. (Robn); White Plains, Aug (Frost,Sq); Bronxville, Aug (Woodr); **SI**, in autumn, on hickory (L&D); **LI**: Yaphank, Aug, Oct (Ds); Prospect Pk., Aug (Yg); Westbury, Sep (Champlain); Flushing, Cold Sp. Harb. (BM). Larva in hickory, elm, poplar, and various hardwoods (Fisher).

HIPPOPSIS Serville

15098 **H. lemniscata** Fab. Rochester (M&W); **SI**: Richmond, Jl 15, 1919 (Bs); **LI**: Jamaica (Pears); Floral Pk., Jl (Not). Larva in stems of ragweed (Fisher).

SAPERDA Fabricius

15109 **S. obliqua** Say. Cranberrry L., Jl (Mund); Elka Pk., Aug (Drk); Syracuse (Blkm); Olcott, Jl (Dt); Buffalo (Z&R); West Pt. (Robn); Bronx Pk. (Joutel); **SI**, Jl, makes galls on alder near roots (L&D); **LI**: Newtown (Ds); Queens, May–Je (Eng); Flushing, Jamaica, Je (BM).

15110 **S. mutica** Say. "Western NY" (Lec); Buffalo (Z&R). Larva in willow (Fisher).

15112 **S. candida** Fab. ROUND-HEADED APPLE BORER (L&D). Mt. Whiteface, Jl (Ds); Syracuse (H); Rochester (M&W); Buffalo (Z&R); Branchport (Lint); McLean Bogs, Aug (Yuasa); Washington Co (Fitch); W. Hebron, Je (Lg); Oliverea, Je (Ds); Elka Pk. (Blkm); West Pt. (Robn); Pine I., Je (Ds); Ft. Montgomery, Jl (Ds); **SI**, Je–Aug (L&D); **LI**: Brooklyn, Je (Ds). Twelve more records (Lg). Larva in apple, often injurious; also in pear, thorn, and most pomaceous trees and shrubs.

15113 **S. calcarata** Say. POPLAR BORER. Keene Val., Aug (BM); Syracuse (Blkm); Mt. Whiteface, Jl (Ds); Rochester (M&W); Olcott, Jl (Dt); Buffalo (Z&R); E. Aurora (Dnd); Cattaraugus Co, Jl (Ds); Ithaca, Sep (Reed); Albany (Joutel); West Pt. (Robn); **LI**: Brooklyn, Aug, on *Populus alba* (Ds, Joutel). Eighteen more records (Lg). Larva in poplar (Fisher).

15113a **S. calcarata** var. **adspersa** Lec. Keene Val., Sep (BM); Mt. Whiteface, Jl (Ds): Brant L. (Doll); Albany (Joutel).

15114 **S. tridentata** Oliv. ELM BORER. Waddington, Aug (Woodr); Gloversville (Lint); Olcott, May (Dt); Rochester (M&W); Buffalo (Z&R); Castile, *Brad* (Flet); E. Aurora, Cortland Co (Dnd): Geneva, Je–Jl, *Cls*; Ithaca, Je–Jl (Dt); Albany (Lint); Hudson (BM); West Pt. (Robn); Mott Haven (Joutel); **SI**, May–Je, on elm (L&D); **LI**, Je (BM). Larva in elm (Fisher).

15115 **S. cretata** Newn. SPOTTED APPLE-TREE BORER. Ithaca (Philip Miller); Elmira, Je (Diven). Larva in apple, sometimes injurious.

15116 **S. discoidea** Fab. HICKORY SAPERDA. Syracuse, bred from hickory (B&S); Genesee, Ap (NYS); Buffalo (Z&R); West Pt. (Robn); Pine I., Je (Ds); Bronx Pk. (Joutel); **SI**, Jl–Sep, on hickory and walnut (L&D); **LI**: Aqueduct, Jl (Ds). Larva in hickory and walnut (Fisher).

15117 **S. vestita** Say. LINDEN BORER. Adirondacks (Felt); Newport, Je (NYS); Syracuse (Blkm); Rochester (M&W); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora, Protection (Dnd); Hamburg, Aug (NYS); Avon, Geneva, Je, *Cls*; Ithaca, Jl, Sep (Dt–CU); W. Hebron, Je (Lg); Greene Co (Zab); Sullivan Co, Je (Ds); West Pt. (Robn); Nyack, Je (Ds); **LI**: Flushing, Je (BM). Larva in linden (Fisher).

15118 **S. imitans** Felt & Joutel. Cranberry L., Jl (Drk); Syracuse, bred from hickory (B&S). Larva in hickory, willow, linden, and cherry (Fisher).

15119 **S. lateralis** Fab. Buffalo (Z&R); Conesus L., Je (Ds); Schoharie (Not); Albany, Je (NYS); W. Hebron, Je (Lg); Poughkeepsie, Je (NYS); West Pt. (Robn); Pine I., Je (Ds); Ft. Montgomery, May (Ds); Nyack, Je (Ds); Bronx Pk. (Joutel); **SI**, Je, on hickory (L&D); **LI** Wyandanch, Jl, Yaphank, Je–Jl (Ds); Brooklyn (Joutel). Larva in hickory, elm, maple, linden, ash, and oak (Fisher).

15119a **S. lateralis** var. **connecta** Felt & Joutel. "NY" (Joutel).

15120 **S. fayi** Bland. Rochester (M&W); Buffalo (Z&R); Schenectady, Je (NYS); Bronx (BM). Breeds in small limbs of wild thorn (Joutel).

15121 **S. puncticollis** Say. Syracuse (Blkm); Rochester (M&W); Buffalo (Z&R); Geneva, *Cls*; **SI**, Je (L&D). Larva in Virginia creeper (Fisher).

15122a **S. populnea** L. var. **moesta** Lec. Wilmington, Jl (Shoe); Gloversville, May (NYS); Rochester (M&W); Buffalo (Z&R); Karner, May (NYS); Feeds on balsam poplar (Joutel).

15123 **S. concolor** Lec. Syracuse (Blkm); Allegany Pk., Cortland Co (Dnd); Windsor, Je (Not); White Plains, Je (Frost, Sq). Larva makes galls on poplar and willow (Fisher).

15123a **S. concolor** var. **unicolor** Felt & Joutel. Mt. Whiteface, Jl (Ds); Rochester (M&W); Genesee (NYS); Buffalo (Z&R); Albany (NYS); West Pt. (Robn); Van Cort. Pk. (Bt); **SI**, on dwarf willow (L&D); **LI**: Yaphank, May, Wyandanch, Jl (Ds); Flatbush, Hempstead Plains, May (BM).

15123b **S. mecasoides** Csy. NY, type locality (Lg Cat.); **SI** (Soltau-US by Fisher).

—— **S. shoemakeri** Ds. Slide Mt., Jl; **LI**: Wyandanch, Jl, Yaphank, May (Ds).

OBEREA Mulsant

15134 **O. schaumi** Lec. Wilmington, Jl (Shoe); Mt. Whiteface, Jl (Ds); Albany, May (NYS); Karner, Je (NYS). Larva in poplar (Fisher).

15137 **O. pallida** Csy. Cranberry L., Sep (Stage).

15138 **O. tripunctata** Swed. Olcott, Je–Jl (Dt); Ithaca, Je, Aug (Dt); McLean, Jl (Dt); Elka Pk., Jl, on flower (Blk); Callicoon, Jl (Lg); West Pt., Je (Robn); Pine I., Je (Lg); Ramapo, May, Nyack, Je (Lg); White Plains, Je–Jl (Frost, Sq); **SI**, Je–Jl (L&D); **LI**: Flushing, Je (BM). Thirty-six more records (Lg). The varieties *myops* Hald. and *man-*

darina Fab. are not differentiated in the records (Lg). Larva in plum, apple, quince, peach, elm, and dogwood (Fisher).

15139 **O. praelonga** Csy. "Northern NY" (Csy).

15144 **O. filum** Csy. Windsor, Je (Not).

15145 **O. basalis** Lec. Buffalo (Z&R); Schuyler Co, Je (H); Schoharie (Not); West Pt. (Robn); **SI,** Jl (Ds); **LI:** Half Way Hollow Hills, Jl (Ds); Bellport, Je–Jl (Nic); Richmond Hill (Logan). Twelve more records (Lg). This is perhaps only a variety of *bimaculata* Oliv.

15146 ?**O. iowensis** Csy. Nyack, Je (Ds); **SI,** Je–Jl (Ds).

15147 ?**O. insignis** Csy. **LI:** Massapequa, Jl (Ds).

15148 **O. bimaculata** Oliv. var. **tripunctata** Fab. RASPBERRY-CANE BORER. Cranberry L., Jl (Mund); Syracuse, Jl, on flowers (Blk); Buffalo (Z&R); E. Aurora (Dnd); Ithaca, Aug (Dt–CU); Windsor, Je (Not); West Pt. (Robn); White Plains, May–Jl (Frost,Sq); **SI,** Je–Jl (L&D). Twenty-two more records (Lg).

—— **O. bimaculata** var. **affinis** Harris. Redford, Je (Shoe); Batavia, Jl (Ds); McLean Bogs (CU); Taughannock Falls, Aug (CU); Debruce, Jl (Shoe).

15152 **O. ocellata** Hald. EYE-SPOTTED APPLE-TWIG BORER. Wilmington, Aug (Ds); Rochester (M&W); Karner (Yg); Peekskill, Je (Sherm); West Pt. (Robn); Orange Co, Je (Zab); Bronx (Woodr); Van Cort. Pk., Aug (BM); **LI:** Smithtown, Aug (Ds); Jamaica (Pears); Rockaway, Je (Shoe). The var. *discoidea* Horn should also be found (Lg). Larva sometimes injurious to new growth or twigs of apple; also in Rhus (Fisher).

15153 **O. ruficollis** Fab. Rochester (M&W); Buffalo (Z&R); White Plains, Jl (Frost, Sq); Riverdale, Jl (Woodr); **SI,** Je (L&D); **LI:** Brooklyn, Jl (Shoe); Flushing, Je (BM). Larva in sassafras and spicebush (Fisher).

15154 **O. gracilis** Fab. **SI** (L&D); **LI:** Yaphank, Je, Riverhead, Aug (BM).

TETRAOPES Serville

15162 **T. canteriator** Drap. West Pt. (Robn); White Plains, Jl (Frost,Sq); **SI,** Je–Jl (L&D); **LI:** Wading R., Orient (Ds); Selden, Half Way Hollow Hills, Jl–Aug (Ds). Twenty-seven more records (Lg). Larva in roots of milkweed (Fisher).

15170 **T. tetraophthalmus** Forst. Plattsburg, Jl (Ds); Wilmington (Ds); Cranberry L., Jl (Mund); Olcott, Je (Dt); Buffalo (Z&R); E. Aurora (Dnd); Castile, Aug, *Brad* (Flet); Geneva, Avon, Je, *Cls*; Ithaca, Jl; Freeville (Ds); West Pt. (Robn); White Plains, Jl (Frost, Sq); **SI,** Je–Jl (L&D); **LI:** Woodhaven, Je (Dt); Orient, Wading R., Jl (Ds). Fifty-six more records (Lg). Larva in roots of milkweed (Weiss).

AMPHIONYCHA LeConte

15186 **A. flammata** Newn. E. Aurora, beaten from sprouts about basswood stump, Je (Dnd); Olcott, Jl (Dt); West Pt. (Robn); Nyack, Je (Ds).

FAMILY **CHRYSOMELIDAE** [55]

SUBFAMILY **DONACIINAE**

Compiled by CHAS. SCHAEFFER

DONACIA Fabricius

15199 **D. militaris** Lac. (*floridae* Lg.). Carmel, White Plains, Aug, *Sq* (Sf). On flowers and leaves of white water lily, *Castalia odorata.*

15202 **D. piscatrix** Lac. Saranac Inn, Lake Bluff, Big Moose (NYS); Horicon, Brant L., *Doll*; L. George, Jl, *Fisher*; Ballston L., Je, *Leon*; Pine I., Je, *Ds*; White Plains, May–Jl, *Bno, Sq* (Sf); **SI,** Je, *L&D*; **LI:** (Eng); Ronkonkoma, Je, *Schott.* On flowers and leaves of yellow water lily, *Nymphaea advena.*

15199 **D. palmata** Oliv. Keene Val., Jl, *Not*; Potsdam (NYS); Long L., *Ds*; Adirondack Lodge, Je, *Leon*; Horicon, *Doll*; L. George, Jl, *Fisher* (US Biol. Surv.); Athens, Jl, *Schott*; Carmel, Aug, *Sq*; Rockland L., Jl, *Schott*; White Plains, May–Aug, *Bno, Sq* (Sf); **SI,** *Ds.* On flowers and leaves of yellow water lily.

—— **D. texana** Cr. var. **minor** Sf. Rockland L., Jl, *Schott*; White Plains, Jl, *Sq*, Aug, *Bno*; **SI** (Lg). On yellow water lily.

15201 **D. rufescens** Lac. L. George, Aug, *Sherm*; Peekskill, *Sherm*; **SI:** Silver L. (L&D); **LI:** Wyandanch, Jl–Sep, *Schott* (Sf). Generally on flowers and leaves of white water lily; occasionally on Brasenia.

—— **D. edentata** Sf. Crum L., Je, *Ds*; **LI:** Montauk Beach, Jl, *Schott.* On flowers and leaves of white water lily.

—— **D. parvidens** Sf. **LI:** Yaphank, May (Sf); Wyandanch, May, *Schott,* Dec, sifting, *Not* (Sf); Wading R., Je, *Shoe.* On flowers and leaves of white water lily.

15198a **D. cincticornis** Newm. Our most common species; occurs almost everywhere in the State. Ausable L., Aug, *Not*; Saranac L., Sep, *Shoe*; Long L., *Ds*; Horicon, *Doll*; Ballston L., Aug, *Leon*; Carmel, Aug, *Sq*; **SI:** Je, *L&D*; Silver L.; **LI:** Cold Sp. Harb., *Brb*; Bellport, Jl, *Nic*; Yaphank, Je–Jl, *Eng*; Wading R., Je, *Shoe, Schott*; Wyandanch, Jl–Sep; Greenport, May, *Schott.* On flowers and leaves of white water lily, and on yellow water lily when the two occur together; also on Brasenia.

—— **D. cincticornis** var. **tenuis** Sf. Tupper L., Aug, *Dyar* (Sf–US); Spencer L., Aug, *Dt*; Peekskill, *Sherm*; **LI:** Wyandanch, Wading R., *Schott.* On white water lily and Brasenia.

—— **D. cincticornis** var. **rufipennis** Lac. "NY" (Dietz Coll.); **SI:** New Pond, Britton's Upper Pond, *L&D.* Adults and larvae found on Potamogeton by Boving and Craighead.

15198 **D. proxima** Kby. Ausable L., Jl, *Not*; Horicon, *Doll*; Pike (NYS); Spencer L., Aug–Sep, *Dt*; Franklinton, Je, *Leon*; Ballston L., Aug, *Leon*; Orange L., Sep; White Plains, Aug, *Sq* (Sf). On flowers and leaves of the yellow water lily.

15199 **D. coerulea** Oliv. White Plains, May–Aug, *Sq, Bno*; Van Cort. Pk., May, *Nic*; **LI:** Baldwin, May, *Eng.* On leaves of the yellow water lily.

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[55] Chas. Schaeffer of the Brooklyn Museum, well-known authority on the Chrysomelidae, has gone over the manuscript for this family, is responsible for some changes in synonymy, and has supplied many records and passed on the validity of as many as was practicable.

15194 **D. hirticollis** Kby. Rochester, *Moore*; Buffalo; Catskills; **LI**: Yaphank, Je, *Eng*.

15196 **D. pubescens** Lec. "NY" (Lec). This species is recorded by Blatchley as occurring on pickerel weed.

15203 **D. quadricollis** Say (*D. cupraea* Kby., *D. curticollis* Knab). Plattsburg;
15204 Rochester, *Wendt*; Buffalo; Ithaca, Aug, *Marshall*; Spencer L., May, Aug, *Dt* (CU). Reported by Fred Knab on bulrushes.

15206 **D. rugosa** Lec. Hamilton Co (CU); Lake Bluff, Sodus, Jl (NYS); Esopus, Aug, *Sherm*; Peekskill, *Sherm*; W. Nyack, Aug, *Beq*; **SI**, Jl, on pickerel weed, *L&D*. On Sagittaria (Lg) and *Pontederia cordata* (Wenzel).

15216 **D. biimpressa** Melsh. (*torosa* Lec., *distincta* Lg. not Lec.). Wallface Mt., Jl, *Not*, *Nic*; Ithaca, McLean, May (CU); Peekskill, May, *Sherm*; White Plains, May–Je, *Pollard*, *Sq* (Sf); Van Cort. Pk., *Nic*; **SI**, Je, *L&D*; **LI**: Long Beach, Rockaway Beach, *Eng*; Yaphank, May. On *Carex stricta* (Frost), and on various grasses, bur reeds (Sparganiaceae), and Sagittaria (Wenzel).

—— **D. biimpressa** var. **limonia** Sf. Indian Pass, Jl, *Quirs*; Concord, May; Ithaca, May; White Plains, Je, *Sq*; Van Cort. Pk.

15203 **D. subtilis** Kunze. Oakfield, Je, *Not*; Ithaca, Je, New Berlin (CU); Voorheesville, Jl, Watervliet Reservoir, Aug, *Leon*; Easton, Thomson, May, *Leon*; W. Nyack, Aug, *Beq*; Pine I., Je, *Pollard*, *Ds*; White Plains, Je, *Sq*; **SI**, Je–Jl, on Sparganium, *L&D*; **LI**: Yaphank, May, *Eng*; Kissena Pk., Mar, *Ols*. On Sparganium (Ds, Wenzel).

15203 **D. subtilis** var. **fulgens** Lec. Old Forge, Je (NYS); Saranac L., *Shoe*; Black R., Lowville, *Not*; Ithaca, *Dt* (CU); White Plains, *Sq*; **LI**: Yaphank, *Eng*.

—— **D. tuberculifrons** Sf. Ithaca, May–Jl, *Kngt* (CU). On yellow pond lily (Wenzel, Wolc), bulrushes (Liebeck), and Sparganium (Ds).

—— **D. liebecki** Sf. **LI**: Wyandanch, Je, *Ds*, *Schott*; Wading R., Je, *Shoe*. On flowers and leaves of white water lily, also on yellow water lily and *Orontium aquaticum*.

15205 **D. megacornis** Blatch. (*megalocera* Weise). "NY" (AM); Long L., *Ds*; Kingston, Jl (NYS); Rockaway, *Shoe*. On flowers and leaves of white and yellow water lily (Wenzel).

15209 **D. aequalis** Say. Black R., Lewis Co, Je, *Not*; Oakfield, Je, *Not*; Voorheesville, Je, *Leon*; **SI**, Jl, swept from subaquatic plants, *L&D*. On Sparganiaceae and Sagittaria (Wenzel).

15218 **D. rufa** Say (*tuberculata* Lac.). Cranberry L., Jl (Drk); Voorheesville,
15210 Jl, *Leon*; White Plains, Jl, *Sq*; **SI**: Clove Val., Jl–Aug, on Sagittaria, *L&D*.

15208 **D. harrisi** Lec. McLean, Jl (CU); White Plains, Jl (Sq); **LI**: near Brooklyn, Jl, *Shoe*. On Carex (Frost).

15218 **D. sulcicollis** Lac. (*rufa* Lg. not Say). Newport, May (Yg); Keene Val., May–Jl, Mt. Skylight, Jl, *Not*; Portage, May, *Kngt*; Rock City, Je, *Ds*, Ithaca, May, *Dt*, McLean, May (CU); Tarbel, Je, *Ds*; Freeville, Je, *Dt*; Catskills, *Pears*; Nassau, Jl (NYS); Thomson, May, *Leon*; Voorheesville, May, *Leon*; Mud Hollow Pond, Je, *Leon*; Peekskill, May, *Sherm*; White Plains, Je–Jl, *Sq*; Suffern, Ramapo, Greenwood L.; **LI**:

Queens, Dow (Sf, Ds). Found on *Caltha palustris* and *Ranunculus acris* (Ds), on *Carex stricta* (Frost), and on leaves of skunk cabbage (Blatchley).

15217 **D. flavipes** Kby. Saranac L., Sep, *Shoe*; Sodus Pt., Je, *Not*; Rochester, *M&W*; Batavia, Je, *Kngt*; Oakfield, Je, *Not*; Ithaca, May–Je, *Dt*; Tivoli, May, *Not*; White Plains, Je (Sq); Greenwood L.; Bronx Pk., *Ds*; **SI,** Je, *L&D*. Occurs on Peltandra (Ds, Liebeck).

15217 **D. flavipes** var. **shoemakeri** Sf. Iona I., Rockland Co, May, *Schott*; Bronx Pk., Je, *Ds*.

—— **D. nitida** Germ. Freeville, Je, *Knab*, *Dt*.

—— **D. notmani** Sf. Wallface Mt., Jl, *Not*, *Nic*, *Quirs*.

15216 **D. emarginata** Kby. Elizabethtown, Je (NYS); Keene Val., May, *Not*; L. Clear, Je (NYS); Black R., Lowville, Je, *Not*; Cranberry L., Je (H); Ithaca (NYS); Ballston L., Aug, *Leon*; Catskills, *Pears*; Karner, Nassau, May (NYS); Mosholu, Ap; Bronxville, May, *Shoe*; **LI:** Brownsville, May, *Woodr*.

—— **D. emarginata** var. **frosti** Sf. Sullivan Co, *Ds*; Peekskill, *Sherm*; Ramapo; **LI:** Queens, *Dow* (Sf, Ds).

15215 **D. metallica** Ahr. (*femoralis* Kby.). Elizabethtown, *Yg* (NYS); Newport, Je, *Yg* (NYS); Keene Val., Je, *Not*; Gloversville, Jl, *Alex* (NYS); Deer R., May (NYS); Portage, May, *Kngt*; Mud Cr., Tompkins Co, Je, *Ds*; West Pt., May, *Robn*; Mud Hollow Pond, Je, *Leon*. On Sparganiaceae and Sagittaria (Wenzel), on *Carex stricta* (Frost), and on *Ranunculus acris* (Ds).

15214 **D. germari** Mann. (*serricauda* Sf.). McLean Bogs, May, *Dt*; **LI:** Rockaway Beach, May, *Shoe*.

15213 **D. fulvipes** Lac. (*cuprea* Lec. not Kby.). Keene Val., Jl (NYS); Catskills, *Pears*; Suffern; **LI:** Wyandanch, Ap, sifting, *Shoe*; Orient, Oct, *Schott*. Swept from grasses and weeds growing in a low, moist meadow near a small creek.

15213 **D. pusilla** Say. Elizabethtown, Je (NYS); Black Br., Lowville, Je (Not); Remsen, Je (NYS); Pike, Je (NYS); Ithaca, May (CU). On rushes (H), and on *Carex stricta* (Frost).

HAEMONIA Latreille

15193 **H. nigricornis** Kby. Onondaga Co, May (H); Pike, Je, *Yg* (NYS); **LI:** Yaphank, Je, *Eng*; Wading R., May, *Schott*; Wyandanch, May.

SUBFAMILY **ORSODACNINAE**

ORSODACNE Latreille

15219 **O. atra** Ahr. Speculator, Je (Yg); Mt. Whiteface, Jl (Shoe); Ithaca, May–Je (Dt); Slide Mt., Je (Ds, Shoe); West Pt. (Robn); **SI,** Ap (L&D); **LI:** West Hills, Ap (Ds); Central Pk., Aug (Eng); Wyandanch, May (Sf); Massapequa, Ap (Shoe); Huntington, Ap (Schott). Abundant on willow catkins, Ap 3–19 (Robn).

15219a **O. atra** var. **childreni** Kby. Mt. Whiteface, Jl (Shoe); Adirondack Lodge, *Leon*, Newport (Yg).

15219b **O. atra** var. **hepatica** Say. Newport, Je (Yg); Slide Mt., Je–Jl (Shoe); **LI:** Central Pk., Ap–May (Eng, Sf); Wyandanch, May (Sf).

15219d **O. atra** var. **tibialis** Kby. Mt. Whiteface (Shoe); Newport, May (Yg); Oliverea (Shoe); **LI:** Central Pk., May (Sf).

15219e **O. atra** var. **trivittata** Lac. Mt. Whiteface, Jl (Shoe); Newport, May (Yg); Oliverea, Jl (Shoe); **LI:** Massapequa, Ap (Shoe).

15219f **O. atra** var. **vittata** Say. Boston, Je (Flet, Dnd); Schuyler Co, Je (H); **LI:** Central Pk., Ap–May (Eng, Sf); Wyandanch, May (Sf).

SYNETA Lacordaire

15223 **S. ferruginea** Germ. Newport, May–Je, Speculator, Je (Yg); Mt. McIntyre, Je (Leon); Denmark, May (Yg); L. Placid, Sep (Shoe); Castile, *Brad* (Flet); Wyoming, Je (Ds); Wolcott, May (Cy); Westfield, May (Not); Spencer, Je (Ds); Ithaca, May–Je (Dt); McLean, May (Ds); Windsor, May, Je (Not); Oliverea, Je (Ds); Slide Mt., Jl (Shoe); West Pt. (Robn); Nyack, May 1 (Schott); Nassau, May (Yg); Ramapo (Sf); **SI** (L&D); **LI:** Massapequa, May (Shoe); Wyandanch, Ap (Sf).

ZEUGOPHORA Kunze

15227 **Z. kirbyi** Baly. Western NY (Lg Cat.).

15228 **Z. reineckei** Grt. Buffalo (Rein).

15230 **Z. consanguinea** Cr. L. Placid, Sep (Shoe); Mosholu (Sf); **SI,** Jl (L&D); **LI:** Aqueduct, Jl (Shoe).

15233 **Z. varians** Cr. Newport (Yg); L. Placid, Aug, *EPV* (Yg); Chazy L., Je (Yg); Horicon, Brant L., Aug (Doll); **SI,** May (L&D); **LI:** Brooklyn, Aug (Shoe); E. New York, Ap (Martin).

SUBFAMILY CRIOCERINAE

CRIOCERIS Geoffroy

15234 **C. asparagi** L. COMMON ASPARAGUS BEETLE. Rochester (Lint); Brighton, May, *Robbins* (Lint); E. Aurora, on asparagus (Dnd); Castile, *Brad* (Flet); Geneva, Je, *Goff* (Lint, Cls); Avon, May (Cls); Ithaca, Aug–Sep (Dt); Albany, Jl (NYS); Tuxedo, May (Ds); West Pt. (Robn); White Plains, May–Sep (Sq); **SI,** May–Je, Aug (Ds); **LI:** Forest Pk., Jl (Martin); Flatbush, Aug (Eng); Queens, Jl (Sf); Brooklyn, Aug (Shoe); Huntington, Aug (Schott); Orient, *Lath* (NYS); Wading R., May (Schott); Selden, Aug (Ds); Rockaway Beach, May, Amagansett, Sep (Ds).

15235 **C. duodecimpunctata** L. Penfield (How); Lockport, *Darrison* (Felt); N. Hector, Je, *Sm* (Felt); Avon, Jl (Cls); Pike (Felt); Brighton, May, *Robbins* (Lint); Buffalo (Felt); E. Aurora (Dnd); Fredonia, Almond (Barden); Westfield (Felt); Ithaca, Jl–Sep (Dt); Coeymans, Albany, *Sm* (Felt); Manor, Oct (Felt); West Pt. (Robn); White

Plains, May–Sep (Sq); **SI,** Je, Sep (Ds); **LI:** Flatbush, Aug (Eng); Rockaway Beach, May (Eng, Shoe); Jamaica (Sf); Brooklyn, Jl (Shoe); Wading R. (Ds); Huntington, Je (Schott); Orient, *Lath* (NYS); Selden, Sep (Ds).

LEMA Fabricius

15240 **L. palustris** Blatch. Horicon, Brant L., Aug (Doll); Catskills, Je (Pears); Ramapo Mts. (Sf); **SI,** Je, on thistle (L&D), as *brunnicollis* Lec.

15253 **L. trilineata** Oliv. THREE-LINED POTATO BEETLE. Newport, Je (Yg); Ilion, May (Yg); Clyde, Jl (Lint); Olcott, Jl (Dt); Buffalo (Lint); Geneseo, Jl (Ds); Orleans Co, Je (Ds); E. Aurora, May (Dnd); Avon, Jl (Cls); Westfield, Je (NYS); Castile, *Brad* (Flet); Schuyler Co, Je (H); Ithaca, Je–Jl, *Yuasa* (Vdyk); Schoharie, Je (Not); Karner, Jl–Aug (NYS); Coeymans, *Sm* (Lint); Nassau, Jl (NYS); West Pt. (Robn); Nyack, Je (Ds); Rockland Co, May (Ds); Rye (Sq); **SI,** Jl (L&D); **LI:** Rockaway Beach, May (Shoe, Eng); Brooklyn, Aug (Shoe); Yaphank, Flatbush, Jamaica, Jl (Eng). Abundant on nightshade (Robn).

15255 **L. nigrovittata** Guér. Brooklyn Bot. Garden, *Eng* (Sf). Described from southern Calif. and Ariz., doubtless introduced.

SUBFAMILY CLYTRINAE

ANTIPUS DeGeer

15262 **A. laticlavia** Forst. Hamburg, Je (Eng); Ithaca, Je–Jl (Dt); Windsor, May, Je (Not); Schoharie, Je (Not); Poughkeepsie, Je (Yg); Pine I., Sep, West Pt., Je (Ds); Ft. Montgomery, Jl (Schott, Ds); Mosholu (Sf); Bronx Pk. (Sf); **SI,** Je (L&D); **LI:** Massapequa, Je (Shoe); Wading R., Je, Yaphank, Jl (Ds).

COSCINOPTERA Lacordaire

15267 **C. dominicana** Fab. Ithaca, Je (Ds); Schoharie, Je (Not); Hudson, Aug (Eng); Nassau, Je (Yg); West Pt. (Robn); **LI:** Pinelawn, Je, Amagansett, May (Eng); Woodhaven, May (Martin); Yaphank. Wading R., May (Ds). Larva lives with ants.

BABIA Lacordaire

15282 **B. quadriguttata** Oliv. Ithaca, Aug (Dt); Schoharie, Je (Not); Karner, Je, Kenwood, Jl, N. Chatham, May, Poughkeepsie, Je (Yg); West Pt. (Robn); Ft. Montgomery, May (Ds); Greenwood L., Je (Love); West Pt., Je (Ds); Pine I., Je (Ds); Ramapo, Je (Ds); Nyack, Je (Ds); **LI:** Central Pk., Je (Shoe); Wading R., Yaphank, Je (Ds). Abundant on hickory (Robn).

SAXINIS Lacordaire

15292 **S. omogera** Lac. West Pt., Je (Sf); Ft. Montgomery, May (Ds); **LI:** Yaphank, Je–Jl (Eng, Ds); Central Pk., Je (Shoe); Wyandanch, Jl (Ds).

SUBFAMILY CHLAMYDINAE

CHLAMYS Knoch [55a]

15297 **C. gibbosa** Fab. Pike (Yg); E. Aurora, Je (Dnd); Windsor, May, Je (Not); Corinth, Springville, Je (Yg); Poughkeepsie, May (Yg); Ulster Co, Sep (Shoe); West Pt. (Robn); White Plains, May (Sq); Mosholu (Sf); **SI**, Ap–Je (L&D); **LI**: (Eng); Wyandanch, Ap (Schott); Calverton, Sep (Ds). On blackberry, the larva living within a case.

15299 **C. cribripennis** Lec. **LI**: Yaphank, May (Eng), Jl (Sf); Pinelawn, Je; Promised Land, Sep; Central Pk., May (Shoe); Amagansett, Sep (Ds).

EXEMA Lacordaire

15306 **E. conspersa** Mann. Westfield, May (Not); Ithaca, Jl (Dt).

15306a **E. conspersa** var. **dispar** Lac. Honeoye Falls, Je (Ds); Windsor, May, Je (Not); Greenwood L.; West Pt. (Robn); Nyack, Je (Ds); Ramapo, Je (Ds); Suffern (Sf); **SI**: Tottenville, Oct, Clove Val., May (Ds); **LI**: Manorville, Sep (Eng); Wading R., May–Je (Ds).

SUBFAMILY CRYPTOCEPHALINAE

PACHYBRACHYS Redtenbacher

15312 **P. pubescens** Oliv. Ithaca, May (Ds); West Pt., Je (Ds); Westchester Co, Jl (Ds); **SI**, Je (L&D); **LI**: Central Pk., Je, Massapequa, Jl (Shoe); Wading R., May (Ds, Schott); Huntington, Jl (Schott); Yaphank, Je (Ds).

15357 **P. pectoralis** Melsh. Greenwood L., Jl (Sf); **SI**, Jl (Lg, Fall); **LI**: Huntington, Sep (Schott).

15358 **P. sobrinus** Hald. E. Aurora, Je (Dnd); **SI** (Lg, Fall); **LI**: Rockaway Beach, Massapequa, Je (Shoe).

15369 **P. femoratus** Oliv. Slide Mt., Jl (Shoe); **SI** (Lg); **LI**: Coney I. (Fall–US); Massapequa, Jl, Yaphank, Aug (Shoe).

15369a **P. femoratus** var. **aquilonis** Fall. "NY" (Fall–US).

15371 **P. subfasciatus** Lec. Slide Mt., Jl (Shoe); Peekskill, May (Sherm); West Pt., May (Robn), Je (Ds); **SI**, *Soltau* (Fall–US); **LI**: Pinelawn, Je (Eng); Central Pk., May (Ds, Shoe); Massapequa, Je (Ds); Yaphank, May (Shoe); Wyandanch, Jl, Wading R., May (Ds, Schott).

15382 **P. confederatus** Fall. "NY" (Fall).

15393 **P. peccans** Suffr. Buffalo (Fall,Lg); **LI**: Cold Sp. Harb. (Brb).

15407 **P. atomarius** Melsh. Protection, Jl (Dnd); W. Hebron, Je (Fall,Lg); West Pt. (Robn); Mt. Vernon (Sherm); Van Cort. Pk., Je (Sf); **SI** (Lg).

15409 **P. obfuscatus** Fall. "NY" (Fall).

15412b **P. cephalicus** Fall var. **parvus** Fall. **LI** (Lg).

15413 **P. roboris** Fall. Buffalo (Fall); Ft. Montgomery, Je (Schott).

15415 **P. relictus** Fall. "NY" (Lg); **LI**: Cold Sp. Harb. (Brb).

[55a] Jacobsen in 1924 changed this name, alleged to be preoccupied, to Bolochesis.

15432 **P. tridens** Melsh. Western NY (Dnd); Oliverea, Je (Shoe); Debruce, Jl (Shoe); West Pt. (Robn); Bronx Pk. (Sf); **SI,** Je (Lg, Ds); **LI:** (US); Brooklyn, May (Shoe). On poison ivy (L&D).

15433 **P. obsoletus** Suffr. Buffalo (Am. Ent. Soc. Coll., Fall); Bluff Pt. (Csy, Fall); **SI,** Jl, *Shoe* (Sf); **LI:** Cold Sp. Harb., Jl (Sherm, Fall); Brooklyn, Jl (Shoe); Wyandanch, Jl (Schott).

15440 **P. bivittatus** Say. Keene Val., Jl (Yg); Windsor, May, Je (Not); Ithaca, Je, Aug (Dt).

15451 **P. othonus** Say. Protection, Jl (Dnd); Ithaca, Je (Dt); Elmira (EPV, Fall); W. Hebron, Je (Lg); Nassau, Jl (Yg); Peekskill (Sherm in Lg Coll., Fall); West Pt. (Sf); **SI,** Jl (L&D); **LI:** Pinelawn, Je (Eng, Ds); Yaphank, May–Je (Ds, Eng), Sep (Shoe); Cold Sp. Harb. (Brb); Wyandanch, Jl (Schott); Wading R., May (Ds).

15455 **P. carbonarius** Hald. Peekskill, *Sherm* (Fall); Van Cort. Pk., Jl, *Zab* (Fall); **SI,** Je (L&D); **LI:** Yaphank, Je (Eng).

15458 **P. m-nigrum** Melsh. Keene Val., Jl (Yg); Newport, Woodworth's L., Jl (Yg); Washington Co, *Lg*; White L., Jl, *Zab* (US); **SI,** Lg; **LI:** Cold Sp. Harb. (Brb); Massapequa, Jl (Ds, Shoe); Riverhead, Jl (Ds).

15459 **P. trinotatus** Melsh. Potsdam, Jl (Liebeck); Colden, *EPV* (US); Protection, Jl (Dnd); Peekskill, *Sherm* (Lg Coll.); **LI:** Yaphank, Jl, Amagansett, Aug (Eng); Cold Sp. Harb. (Brb); Central Pk., Je (Shoe); Wyandanch, Sep (Schott).

15462 **P. luridus** Fab. Ithaca, Je (Ds); W. Hebron, Je, Aug (Ds, Lg); West Pt. (Robn); Ft. Montgomery, Je (Schott); **SI,** Je (L&D); **LI:** Pinelawn, Je (Eng); Yaphank, May, Jl (Ds, Eng); Massapequa, Jl, Brooklyn, Jl (Shoe); Wyandanch, Je (Schott).

15462a **P. luridus** var. **nigrinus** Blatch. **LI:** Brooklyn, Je, Massapequa, Jl (Shoe).

15470 **P. hepaticus** Melsh. "NY" (Lg).

MONACHULUS Leng

15472 **M. ater** Fab. Karner, N. Chatham, Je (NYS); Southfields, Aug (Schott); Westchester Co (Ds); West Pt. (Robn); **SI,** south shore, Jl (Shoe, Ds); **LI:** Cold Sp. Harb. (Brb).

15473 **M. saponatus** Fab. Allegany Pk., Jl (Dnd); Karner, Jl, Hope, Aug, Nassau, Jl, Woodworth's L., Jl (NYS); **SI,** Jl (Shoe), Je (L&D); **LI:** Brooklyn, Jl, Aqueduct, Aug (Shoe).

15474 **M. thoracicus** Cr. West Pt. (Robn). Determination queried by Sf, since the species is known only from Fla.

CRYPTOCEPHALUS Geoffroy

15479 **C. notatus** Fab. Keene Val., Jl (Yg); Horicon, Brant L., Aug (Doll); Corinth, Je (Yg); Karner, Je (Yg); Poughkeepsie, May (Yg); White Plains, Aug (Sq); Nyack, Je (Ds); **LI:** Yaphank, May–Je (Eng, Ds); Hempstead Plains, May (Eng); Central Pk., May (Ds, Shoe); Huntington, May (Schott); Wyandanch, Jl, Wading R., May (Ds).

15479a **C. notatus** var. **quadrimaculatus** Say. Western NY (Dnd); Olcott, May–Jl, Ithaca, May–Aug (Dt); Wilmington, Jl (Shoe); Catskills, Jl (Shoe); West Pt. (Robn); White Plains, Je–Jl (Sq); **LI:** Woodhaven (Dt); Orient, *Lath* (NYS).

15480 **C. quadruplex** Newn. Newport (Yg); Western NY, Je (Dnd); Rock City, Je (Ds); Ithaca, Jl (Eng); W. Danby, May (Ds); Windsor, May, Je (Not); Corinth, Je (Yg); Karner, Je (NYS); West Pt. (Robn); **SI,** Je–Jl (Shoe, Ds); **LI:** Central Pk., May (Shoe).

15480a **C. quadruplex** var. **quadriguttulus** Suffr. West Pt., Je (Ds); **SI,** Je (Ds); **LI:** Pinelawn (Eng); Huntington, Je (Schott); Wyandanch, Jl, Wading R., May, south of Smithtown, Je (Ds).

15483 **C. guttulatus** Oliv. "NY" (Sf); West Pt. (Robn); **LI:** Central Pk., Je (Shoe).

15495 **C. venustus** Fab. Keene Val., Aug (Yg); Cortland, Jl, *Bks* (Yg); Albany, Nassau, Kinderhook, Jl (Yg); West Pt. (Robn); White Plains, Jl (Sq); **SI,** Jl–Aug (Ds); **LI:** Cold Sp. Harb. (Brb); Brooklyn, Jl (Shoe); Wyandanch, May (Schott); Central Pk., Sep, Wading R., Jl (Ds).

15495a **C. venustus** var. **cinctipennis** Rand. "NY" (Sf); Woodworth's L., Jl (Yg); **LI:** Fire I., Jl (Ds).

15495b **C. venustus** var. **hamatus** Melsh. **SI,** Aug (Ds); **LI:** Babylon (Jn); Cold Sp. Harb. (Brb); Brooklyn, Aqueduct, Jl (Shoe).

15495d **C. venustus** var. **simplex** Hald. **SI,** Aug (Ds); **LI:** Yaphank, Jl–Aug (Eng, Shoe); Cold Sp. Harb. (Brb); Central Pk., Je (Shoe); Half Way Hollow Hills, Jl (Ds).

15500 **C. calidus** Suffr. White Plains, Je (Schott); **SI,** Jl (L&D); **LI:** Wading R., Jl (Sf), Je (Ds); Cold Sp. Harb., Jl (Brb); Yaphank, Je (Eng).

15501 **C. gibbicollis** Hald. **LI:** Massapequa, Je, Yaphank, Aug (Shoe).

15503 **C. trivittatus** Oliv. Mosholu, Je (Sf); **LI:** Wyandanch, Jl (Schott); Bayshore, Jl (Ols).

15505 **C. incertus** Oliv. **LI:** Yaphank, Aug (Eng, Shoe); Amagansett, Aug (Sf), Sep (Ds).

15507 **C. mutabilis** Melsh. Newport (Yg); Pike (Yg); Castile, Sep, *Brad* (Flet); White Plains, Aug (Sq); Ft. Montgomery, Jl (Schott); **SI,** Jl–Aug (Shoe); **LI:** Wading R., Jl, *Ds* (Sf); Central Pk., Je, Yaphank, Aug (Shoe); Huntington, Aug (Schott); Riverhead, Aug (Ds); Pinelawn, Sep (Ds).

15515 **C. schreibersi** Suffr. West Pt. (Robn); Bear Mt., Sep (Schott); **LI:** Wyandanch, Aug (Schott, Sf); Central Pk., Aug (Ds).

15516 **C. tinctus** Lec. Ft. Montgomery, Sep (Schott); **SI,** Sep (L&D); **LI:** Yaphank, Sep–Oct (Eng, Shoe).

15518 **C. striatulus** Lec. "NY" (Sf); **SI,** Je–Jl (L&D).

DIACHUS LeConte

15521 **D. auratus** Fab. Speculator, Aug, Newport, Je (Yg); Horicon, Brant L., Aug (Doll); Mooers, Sep (Not); Schuyler Co, Je (H); Oliverea, Je (Ds, Shoe); Catskills (Pears); West Pt. (Robn); Mosholu (Sf); **SI,** Je–Jl (L&D); **LI:** Wyandanch (Sf); Rockaway Beach, Je (Ds); Brooklyn, Je (Shoe); Central Pk., Aug (Ds).

15526 **D. aeruginosus** Lec. Redford, Je (Martin). Described from Colo.

15527 **D. catarius** Suffr. Newport, Je, Wells, Jl (Yg); Mt. Whiteface, Jl (Shoe); Corinth, Je (Yg); Oliverea, Je (Shoe); Catskills (Pears).

15528 **D. pallidicornis** Suffr. "NY" (Sf); Olcott, Je–Jl (Dt).

BASSAREUS Haldeman

15530 **B. brunnipes** Oliv. var. **clathratus** Melsh. **SI**, Jl (L&D); **LI**: Yaphank, Jl, Wading R., Je, Selden, Aug (Ds). On alder and Clethra.

15532 **B. formosus** Melsh. Keene Val., Je, Karner, Jl (Yg); Van Cort. Pk. (Nic); **LI**: Pinelawn, Je (Eng); Babylon (Jn); Massapequa, Je–Jl (Shoe); Wyandanch, Jl, Oakdale, Aug (Schott); Riverhead, Jl (Ds).

15532 **B. formosus** var. **sulphuripennis** Melsh. Protection, Jl (Dnd); **LI**: Yaphank, Jl (Eng); Wyandanch, Je (Schott).

15534 **B. mammifer** Newn. Newport, Jl (Yg); Horicon, Brant L., Aug (Doll); Erie Co, Je–Jl (Dnd); Ithaca, Je (NYS); West Pt. (Robn); **SI**, Je (L&D); **LI**: Wyandanch, Je (Schott).

15534b **B. mammifer** var. **luteipennis** Melsh. "NY" (Dt).

15534c **B. mammifer** var. **pretiosus** Melsh. **SI**, Jl (L&D); **LI**: Cold Sp. Harb. (Brb); Yaphank, Aug (Shoe); Jamaica, Jl (Schott).

15534d **B. mammifer** var. **sellatus** Suffr. Castile, Sep, *Brad* (Flet); Elka Pk., Aug (Drk); Oliverea, Jl (Shoe); Bear Mt., Je (Schott); Karner, Je (NYS); West Pt. (Robn); **LI**: Central Pk., Je (Shoe); Orient Pt., Je, *Lath* (Yg).

15536b **B. lituratus** Fab. var. **lativittis** Germ. West Pt. (Robn); White Plains, May–Jl (Sq); Nyack, Je (Ds); **LI**: Bayshore (Ols); Wading R., May (Ds); Yaphank, Je (Ds).

15536b **B. lituratus** var. **recurvus** Say. "NY" (Dietz); Oliverea, Jl (Shoe); **SI**, Je (Ds); **LI**: Cold Sp. Harb. (Brb); Massapequa, Je (Ds, Shoe); Floral Pk., Je (Schott).

TRIACHUS LeConte

15537 **T. atomus** Suffr. L. Placid, Sep, *Shoe* (Sf); Mosholu (Sf); **LI**: Pinelawn, Je (Ds); Brooklyn, Je (Shoe).

15538 **T. cerinus** Lec. **LI**: Rockaway Beach, Je (Sf, Ds); Amagansett (Sf); Cold Sp. Harb. (Brb).

SUBFAMILY EUMOLPINAE

CHRYSODINA Baly

15544 **C. globosa** Oliv. Windsor, May, Je (Not); Greenwood L. (Sf); West Pt., Jl (Eng); West Pt. (Robn); Ramapo, Ft. Montgomery, May (Ds); **SI**, Je, Aug–Sep (L&D); **LI**: Pinelawn, Je (Eng, Ds); Cold Sp. Harb., Jl (Brb); Massapequa, Jl (Shoe); Huntington, May, Nov (Schott); Amagansett, Sep, Gardiners I., Aug, Wading R., May (Ds).

NODONOTA Lefevre

15545 **N. tristis** Oliv. Olcott, Dec (Dt); Danby, Jl (Dt); Ithaca, Jl, *Yuasa* (Vdyk); Albany (NYS); West Pt. (Robn); **SI**, on south shore, Jl (Ds).

15546 **N. clypealis** Horn. Mosholu (Sf); **LI**: Brooklyn, Aug (Shoe).

15549 **N. puncticollis** Say. Batavia, Je (Ds); Newport, Pike, Schenectady, Nassau, Albany, Je (NYS); Schoharie, Je (Not); Lagrangeville, Je (NYS); Ramapo, May (Ds); **SI**, May–Jl (Ds); **LI**: Pinelawn, Je (Eng); Bellport, Je (Nic); Cold Sp. Harb., Jl (Brb); Central Pk., Je (Shoe); Wyandanch, Je (Schott); Yaphank, Jl (Ds); Orient, *Lath* (NYS).

COLASPIS Fabricius

15555 **C. brunnea** Fab. Wells, Jl (Yg); Olcott, Je–Jl (Dt); Clyde, Jl, *Bish* (Yg); Fredonia (Felt); Ithaca, Jl–Aug (Dt); Peekskill (Sherm); West Pt. (Robn); White Plains, Je–Aug, *Sq* (Fall); **SI,** Aug (Eng); **LI:** Rockaway Beach, Je (Eng); Brooklyn, Jl–Aug (Shoe); Gardiners I., Aug, Orient, Sep, Amagansett, Aug (Ds).

15555b **C. brunnea** var. **flavida** Say. "NY" (Dietz); **SI,** Jl, Aug (L&D); **LI:** Flatbush, Jl (Schott).

15559 **C. favosa** Say. **SI,** Je (L&D); **LI:** Brooklyn, Jl (Shoe); Orient, Central Pk., Jl (Ds). On *Myrica carolinensis* (Sf).

RHABDOPTERUS Lefevre

15563 **R. picipes** Oliv. Elizabethtown, Jl, Newport, Je (Yg); E. Aurora, Jl–Aug (Dnd); Ithaca, Je (Felt); Schoharie, Je (Not); Kenwood, Jl (Yg); Poughkeepsie, Aug (Lath); West Pt. (Robn); **SI:** Aug, Je (Eng, Ds); Watchogue, Aug (Ds); **LI:** Gardiners I., Aug (Ds); Aqueduct, Je, Brooklyn, May (Shoe); Jamaica (Schott); Orient, *Lath* (NYS).

GRAPHOPS LeConte

15567 **G. pubescens** Melsh. Newport, May, Speculator, Aug (Yg); E. Aurora, Je (Dnd); Ithaca, Sep (Dt); Phoenicia, Aug (EPV); Clinton Hgts., Mar (Yg); Nassau, Jl (Yg); West Pt. (Robn); Van Cort. Pk., Sep (Yg); **SI** (L&D); **LI:** Long Beach, May (Eng); Brooklyn, Rockaway Beach, May (Shoe); Huntington, May (Schott); Flatbush (Ds); Yaphank, May (Ds).

15568 **G. curtipennis** Melsh. **LI:** Pinelawn, Yaphank, Je (Eng); Wyandanch, Jl, Montauk, Sep (Ds).

15569 **G. marcassitus** Cr. Rock City, Je (Ds); Windsor, May, Je (Not); Schuyler Co, Je (H); West Pt. (Robn); **SI,** May (L&D); **LI:** Amagansett, Aug (Eng); Rockaway Beach, May–Je (Shoe); Flatbush, Aug (Zab); south of Smithtown, Je (Ds); Pinelawn, Je (Ds).

XANTHONIA Baly

15573 **X. decemnotata** Say. Newport, May, Elizabethtown, Aug (Yg); Olcott, May–Aug (Dt); Pike, Sep (Yg); Batavia, Je (Ds); E. Aurora, May–Jl (Dnd); Rock City, May (Ds); Westfield, May (Not); Schuyler Co, Je (H); Ithaca, Sep (Dt); Buttermilk Cr., May, *Palm* (Yg); Schoharie, Je (Not); Windsor, May, Je (Not); Karner, May (NYS); Clinton Hgts., Ap (NYS); Poughkeepsie, Jl (NYS); Oliverea, Je (Shoe); Nyack, May (Schott); Ramapo, May (Ds); Pine I., Je (Ds); **SI** (L&D); **LI:** Central Pk., Ap (Eng); Yaphank, May, Oct (Ds, Eng); Manorville, Sep, Pinelawn, Je (Eng); Wyandanch, Je (Schott); Massapequa, Wading R., May (Ds).

15574 **X. villosula** Melsh. Newport, Je, Pike, Sep (NYS); Olcott, Jl (Dt); Letchworth Pk., Jl (Yg); Batavia, Je (Ds); E. Aurora, Jl (Dnd); Genesee Co, Je (Ds); Ithaca, Jl–Aug, *Yuasa* (Vdyk, Dt); Schoharie, Je (Not); West Pt., Jl (Eng); **SI:** Clove Val., Jl (Ds); **LI:** Yaphank, Je–Jl (Eng, Ds); Promised Land, Sep (Eng); Cold Sp. Harb., Jl (Brb); Brooklyn, Je, Aqueduct, Jl (Shoe); Central Pk., Jl (Schott); Selden, Aug, Wyandanch, Jl (Ds).

FIDIA Baly

15577 **F. viticida** Walsh. Buffalo, Aug, Westfield, Je (NYS); Fredonia, Ripley, Jl (Felt); Albany, Jl (Lint); Highland, Jl (NYS); **SI**, Jl (L&D); **LI**: Je (Eng); Brooklyn, Je, Aqueduct, Jl (Shoe).

15578 **F. longipes** Melsh. West Pt. (Robn).

METACHROMA LeConte

15593 **M. laevicollis** Cr. **LI**: Central Pk., Jl (Sf, Ds); Coney I. (Linell).

15598 **M. pallidum** Say. Karner, Jl, *Hoffman* (NYS); **LI**: Central Pk., Jl (Sf).

15598a **M. pallidum** var. **lateralis** Cr. **LI**: Central Pk., Jl (Sf).

15601 **M. quercatum** Fab. **LI**: Wyandanch (Sf); Yaphank, Je (Ds).

ADOXUS Kirby

15604b **A. obscurus** L. var. **villosulus** Schrank. Mt. Whiteface, Jl (Shoe); Old Forge, Wells, Augur Flats, Jl (NYS); L. Placid, Jl, Sep (Shoe–NYS); Wanakena, Aug (Drk); Cranberry L., Jl–Aug (Drk); Horicon, Brant L., Aug (Doll); West Pt. (Robn); **SI** (L&D); **LI**: Rockaway Beach, Je (Shoe, Eng).

TYMNES Chapuis

15605 **T. tricolor** Fab. Ithaca, Aug (Dt); Karner, Jl (Yg); West Pt. (Robn); Nyack, Pine I., Je (Ds); **SI**: Richmond, Je (Ds); **LI**: Flatbush, Yaphank, Je, Amagansett, Aug, Orient, Je (Eng); Jamaica, Je (Yg); Cold Sp. Harb., Jl (Brb); Brooklyn, Je (Shoe); Central Pk., Je (Shoe); Wyandanch, Long Neck, Je (Schott).

15607 **T. metasternalis** Cr. "NY" (Dietz); **SI**, on Crataegus (L&D).

GLYPTOSCELIS LeConte

15613 **G. pubescens** Fab. Pike (NYS); Erie Co, May–Je (Dnd); Ithaca, May, Aug (Dt); Cooperstown, May (Yg); Hudson, Je (Eng); West Pt., Jl (Ds); **SI**, Je (L&D); **LI**: Massapequa, May (Shoe); Bayshore (Ols); Wading R., May (Schott); Wyandanch, Jl, Central Pk., Yaphank, May (Ds).

15614 **G. barbata** Say. Pine I., Je (Ds); Ramapo (Sf); **LI**: Massapequa, Jl (Shoe); Greenport, Aug (Ds, Eng).

PARIA LeConte

15626 **P. canella** Fab. "NY" (Dietz); Erie Co, Je–Jl (Dnd); West Pt. (Robn); **SI**, Mar–Aug (L&D).

15626a **P. canella** var. **aterrima** Oliv. Gloversville, Ap, *Alex* (Yg); Buffalo, Aug (NYS); Chautauqua Co, Jl (Yg); Ithaca, May–Sep (Dt); Salem, Aug (NYS); Poughkeepsie, Je (Yg); **SI**, Jl (Ds); **LI**: Promised Land, Sep (Eng); Gardiners I., Jl (Ds); Orient, Jl, *Lath* (Ds).

15626b **P. canella** var. **gilvipes** Horn. Axton, Je (MacG); Onondaga Co, May–Je, Schuyler Co, May–Je (H); Rock City, Je (Ds); Ithaca, May–Aug (Dt); Oliverea, Je (Shoe); **SI**, Jl (Ds); **LI**: Aqueduct, Mar (Shoe); Brooklyn, May (Shoe).

15626c **P. canella** var. **pumila** Lec. Mooers, Sep (Not); Pike, Mar (NYS); Ithaca, Jl, Sep (Dt); Windsor, May, Je (Not); Poughkeepsie, Je (NYS); **SI** (L&D); **LI:** Brooklyn, May (Shoe).

15626d **P. canella** var. **quadriguttata** Lec. Onondaga and Schuyler Counties, May–Je, flying (H); Castile, *Brad* (Flet); Olcott, Jl, Ithaca, Je (Dt); Mooers, Sep (Not); Ringwood, Jl, *Yuasa* (Vdyk); Windsor, Je (Not); **LI:** Orient, *Lath* (NYS).

15626e **P. canella** var. **quadrinotata** Say. Newport, May (Yg); Conesus L., Je (Ds); Pike, Jl (NYS); Rock City, Je (Ds); Ithaca, May–Aug (Dt); McLean, May (Ds); Albany, May (Yg); Slide Mt., Je (Shoe); Bangall, Sep (Eng); Pine I., Je (Ds); **SI:** Tottenville, Je (Ds); **LI:** Bellmore, Sep (Eng); Rockaway Beach, May (Shoe).

15626f **P. canella** var. **sellata** Horn. Cranberry Cr., Je, Pike, Jl (NYS); Windsor, May, Je (Not); **SI,** Jl (Ds); **LI:** Pinelawn, Je (Eng); Cold Sp. Harb., Jl (Brb); Wading R., May (Ds).

15626g **P. canella** var. **sexnotata** Say. Letchworth Pk., Sep (Dnd); Oliverea, Je (Shoe); Karner, May (NYS).

15626h **P. canella** var. **thoracica** Melsh. Speculator, Je (NYS); Northampton, Je (Yg); Ithaca, Je (Dt); Schenectady, Je (NYS); Albany, Je (NYS); Ulster Co (Nic); **SI** (L&D).

—— **P. canella** var. **vittata** Horn. Schuyler Co, Onondaga Co, May–Je (H); Ithaca, Je (Dt); Windsor, May, Je (Not); **SI** (L&D); **LI:** Brooklyn, Jl (Shoe); Eastern Parkway, Brooklyn, Jl (Martin); Yaphank, Ap, Long Beach, May (Eng); Rockaway Beach, May (Shoe).

—— **P. scutellaris** Not. Windsor, Je (Not).

CHRYSOCHUS Redtenbacher

15627 **C. auratus** Fab. Wilmington, Aug, Long L. (Ds); Horicon, Aug (Doll); Mooers, Sep (Not); Onondaga Co, Oct (H); Olcott (Dt); Erie Co, Je–Jl (Dnd); Castile, *Brad* (Flet); Ithaca, Jl–Sep, *Yuasa* (Vdyk, Dt); Callicoon, Jl (Ds); West Pt., Sep (Ds); White Plains, Jl (Sq); **SI,** Je–Jl (Ds); **LI:** Yaphank, Jl, Sep (Eng, Ds); Wading R., Aug (Sf, Ds); Brooklyn, Jl–Aug (Shoe); Orient, *Lath* (NYS).

SUBFAMILY CHRYSOMELINAE

PRASOCURIS Latreille

15636 **P. vittata** Oliv. Ogdensburg, Jl (Yg); Blue Mt., Jl, Newport, Je, Cranberry L., Jl (Drk); Deer R., May, Pike, Mar (Yg); Castile, *Brad* (Flet); E. Aurora, Je, Oct (Dnd); Redford, Jl (Martin); Madison Co, May, herbage (H); Buffalo; Debruce, Jl (Shoe); Avon, Geneva, May (Cls); Ithaca, Je–Aug, McLean, May (Dt); Debruce, Jl (Shoe); Pine I., May (Schott); West Pt., May (Robn); Ft. Montgomery, Je (Schott); White Plains, May–Jl (Sq); **SI,** Je (L&D).

LABIDOMERA Chevrolat

15639 **L. clivicollis** Kby. Newport, Aug (Yg); Severance, Jl (Bks); New Russia, Je (Yg); Ogdensburg, Jl (Yg); Mooers, Sep (Not); Olcott, Je–Jl (Dt); Avon, May, Geneva, Jl–Aug (Cls); E. Aurora, May–Aug (Dnd); Castile, *Brad* (Flet); Rock City, Je (Ds); Ithaca, Ap, Je–Sep

(Dt, Bish); McLean, May (Ds); Albany, Je (Yg); Waterford Reservoir, Aug (Leon); Thomson, May (Leon); Hudson Falls, Sep (Yg); Hudson, Aug (Eng); Oliverea, Je (Shoe); Debruce, Jl (Shoe); Sullivan Co (Ds); West Pt. (Robn); White Plains, May–Aug (Sq); **SI**, May–Aug (L&D); **LI**: Yaphank, May, Jamaica, Jl, Greenport, Aug (Eng); Rockaway, May, Brooklyn, Aug (Shoe); Amagansett, Je (Sf); Orient, Jl, *Lath*, Maspeth, Aug (Ds).

LEPTINOTARSA Stål

15648 **L. decemlineata** Say. COLORADO POTATO BEETLE. Big Moose, Jl, Old Forge, Je (Yg); Cranberry L., Jl, Dec (Drk); Hamilton Co (Ds); Oswego, Je (Bks); Lockport, Sep (Yg); Avon (Cls); Castile, *Brad* (Flet); E. Aurora (Dnd); Rock City, May (Ds); Trenton Falls, Je (Bks); West Pt. (Robn); White Plains, all summer (Sq); **SI** (Ds); **LI**: Long Beach, Flatbush, May (Eng); Brooklyn, Rockaway Beach, May (Shoe); Orient, Je (Ds).

ZYGOGRAMMA Chevrolat

15655 **Z. suturalis** Fab. Onondaga Co, Oct (H); Westfield, May (Not); Castile, *Brad* (Flet); Avon, Ap, Geneva, May, Aug (Cls); West Pt. (Robn); White Plains, May–Sep (Sq); **SI**, Aug (Ds); **LI**: Amagansett, Aug, Montauk Pt., May, Yaphank, May (Eng); Aqueduct, Jl, Sep (Shoe, Ds).

15655a **Z. suturalis** var. **casta** Rogers. White Plains, Je (Sq); **SI** (L&D).

CALLIGRAPHA Erichson

15664 **C. lunata** Fab. Ilion, May (Yg); Schuylerville, Je (Yg); Ithaca, Ap (Bish); Scotia, Je (Yg); Karner, Aug (Yg); N. Chatham, Je (Yg); Poughkeepsie, Jl (Leon); Southfields, Aug (Schott); West Pt. (Robn); Mosholu, Jl (Yg); White Plains, Jl–Aug (Sq); **SI** (L&D); **LI**: Amagansett, Sep, Long Beach, May (Eng); Orient, Je, *Lath* (NYS); Rockaway Beach, May (Shoe); Montauk, Fire I., Promised Land, Sep, Wading R., Je (Ds).

15665 **C. similis** Rogers. Oswego, Jl (Bks); Olcott, Je–Jl (Dt); E. Aurora, Je–Jl (Dnd); Canandaigua, Jl (Felt); Westfield, May (Not); Ithaca, Jl, Sep (Dt); Windsor, Je (Not); Albany, Jl (Bks); Windham, Oct (Dt); Pine I., May (Schott); Callicoon, Jl (Ds); West Pt. (Robn); White Plains, May–Jl (Sq); **SI**, May–Aug (L&D); **LI**: Jamaica, Jl (Eng); Rockaway Beach, May, Aqueduct, Jl (Shoe); Orient, *Lath* (NYS); Flushing, Wading R., Aug (Ds); Brooklyn (Dt).

15669 **C. elegans** Oliv. Wells, Jl, Newport, May (Yg); Clintonville, Ap (Yg); N. Pulaski, L. Ontario, Je (Ds); Williamsville, Je (Dnd); Ithaca, Ap–Sep (Dt, Vdyk); Windsor, Je (Not); Watervliet Reservoir, Aug (Leon); Hudson, Jl (Eng); Slide Mt., Jl (Shoe); West Pt. (Robn); Pine I., Je, Ramapo, Ap (Ds); White Plains (Sq, Bno); **SI**, Ap–Sep (Ds); **LI**: Long Beach, Rockaway Beach, May (Eng); North Beach, Dec, Queens, Je (Schott); Aqueduct, Jl (Shoe); Flushing, Wading R., Aug (Ds); Orient, *Lath* (NYS).

15671 **C. scalaris** Lec. Adirondack Lodge, Jl (Claas); Newport, May–Je, Keene Val., Je (Yg); Wilmington, Jl (Shoe); Ogdensburg (Yg); Clinton, May (Yg); Lowville, Jl (Ds); Westfield, May (Not); Oswego, Je

(Bks); Avon, Je, Geneva, Oct (Cls); Ithaca, Je, *Yuasa* (Vdyk); Oliverea, Je (Ds); West Pt. (Robn); White Plains, Jl–Aug (Sq); **SI**, Oct (L&D); **LI**: Brooklyn, May, Oct (Shoe); Oyster Bay, Aug (Ds).

15672 **C. rhoda** Knab. E. Aurora (Dnd).

15673 **C. rowena** Knab. Newport, Je (Yg); Wilmington, Je (Hoffman); Mt. Whiteface, Jl (Ds); E. Aurora, Je–Jl (Dnd); Avon, Geneva, Je (Cls); Ithaca, May, Aug (Dt); **LI**: Yaphank, May (Eng).

15674 **C. philadelphica** L. Newport, May–Je, Wells, Aug (Yg); Woodworth's L., Jl (Leon); Northampton, Je (Yg); Plattsburg, Jl (Shoe); Pike, Je (NYS); Genesee Co, Je (Ds); McLean, May (Dt); Schoharie, Je (Not); Nassau, Je (Yg); Voorheesville, Je (Bish); Thomson, May (Leon); N. Chatham, Je (Yg); White Plains, Je (Sq); **LI**: Bellport, Je–Aug (Nic); Bayshore, Jl (Ols).

15675 **C. amelia** Knab. Ellis, Je; **SI** (Knab).

15677 **C. bigsbyana** Kby. L. Placid, Sep (Eng); Keene Val., Jl (Yg); Long L., Aug (Yg); Severance, Jl, *Baker* (Yg); Newport (Yg); Mooers, Sep (Not); Onondaga Co, May, herbage (H); Port Byron, Je (Dt); Olcott, Oct (Dt); western NY, Je–Aug (Dnd); Westfield, Aug (Yg); Castile, *Brad* (Flet); Ithaca, May, Jl (Dt); Groton, Je (Ds); Freeville, Jl (Chapman); Windsor, Je (Not); Schoharie, Je (Not); Callicoon, Jl (Ds); Oliverea, Je–Jl (Ds, Shoe); Albany, May, Karner, Sep (Yg); Catskills, Jl (Eng); **LI**: (Eng); Bayshore, Jl (Ols).

—— **C. apicalis** Not. Mooers, Clinton Co, Sep (Not).

CHRYSOMELA Linnaeus

15692 **C. subopaca** Rogers. This is reported by Rogers as occurring in NY, but apparently this report is doubtful, as no specimens seem to have been taken by any one else.

PLAGIODERA Redtenbacher

15693 **P. versicolora** Laich. Windsor, Je (Not); NY Bot. Gardens, Jl (Hoffman); Van Cort. Pk., May (Nic); **SI**: Bulls Head, Sep–Oct, Dec (Ds); **LI**: Flushing, Jan (Bell); North Beach, Je (Schott). On willow (Sf).

PHAEDON Latreille

15699 **P. viridis** Melsh. Ilion (NYS); Newport, Je, *Yg* (Hoffman); Barneveld, Aug (Hoffman); Olcott, Oct (Dt); Ithaca, May–Aug (Dt); Catskills (Pears); Debruce, Jl (Shoe).

GASTROIDEA Hope

15701 **G. polygoni** L. Very common in the State (Sf). Batavia, Je (Ds); Ithaca, Ap, Jl–Sep, *Yuasa* (Vdyk, Dt); E Aurora, May, Jl (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Avon, Ap–May (Cls); Windsor, Je (Not); Schoharie, Je (Not); Kenwood, Jl (Yg); Albany, *Fernow* (Lint); Oliverea, Je (Ds); West Pt. (Robn); **SI**, Ap–Aug (Ds); **LI**: Rockaway Beach, Je, Long Beach (Eng); Wading R., May, Flatbush, Ap (Schott); Brooklyn, Ap, Je (Shoe).

15703 **G. cyanea** Melsh. **SI**, May–Je (Ds). On Rumex.

LINA Redtenbacher

15708 **L. interrupta** Fab. Keene Val., Jl (Yg); Wilmington, Jl (Shoe); Gloversville, May, *Alex* (Yg); Castile, *Brad* (Flet); E. Aurora, May, Protection, Je (Dnd); Avon, May, Geneva, Je, Lodi, Jl (Cls); Ithaca, Mar–Aug, *Bish*, *Yuasa* (div.); Corinth, Je, Karner, May (Yg); Pine I., Je (Sf); West Pt., Je (Ds); Ft. Montgomery, May (Schott); Southfields, May (Schott); **SI:** Je (Ds); Silver L. (Sf); **LI:** Wyandanch, Je (Sf); Rockaway Beach, May (Shoe, Schott); Flushing (Bell). Often in collections as *lapponica* L., which is European (Sf).

15709 **L. tremulae** Fab. Axton, Je (M&H); Newport, Je, L. Clear, Jl (Yg); Mt. McIntyre, Jl, *Leon* (Yg); Horicon, Aug (Doll); N. Pulaski, L. Ontario, Je (Ds); Mt. Whiteface, Jl (Shoe); Conesus L., Je (Ds); Elba, Je, *Wild* (Dnd); Ithaca, Jl (Dt); Ringwood, Jl, *Yuasa* (Vdyk); Windsor, Je (Not); West Pt., Jl (Ds); **SI,** Jl (L&D); **LI:** Rockaway Beach, Je (div.); Long Beach, Je (Eng, Schott); Flatbush, Jl (Schott).

15710 **L. scripta** Fab. Ausable R. (Lint); Liverpool, May (Lint); Northampton, Je (Yg); Cranberry L., *Htly* (H); Ithaca, May–Je (Dt); Albany, Je (Yg); West Pt. (Robn); **SI,** Je, Aug (Ds); **LI:** Wyandanch, Je (Sf); Long Beach, Je (Eng); Flatbush, May (Eng).

15711 **L. obsoleta** Rog. West Pt., Je (div.); Ramapo, Je (Ds).

PHYTODECTA Kirby

—— **P. americana** Sf. Axton, Je (M&H); Keene Val., Je (Not); Mt. Whiteface, Jl (Shoe); Cranberry L., *Htly* (H); Windsor, Je (Not); Oliverea, Je (Shoe); **LI:** Rockaway Beach, May (Schott).

—— **P. notmani** Sf. Keene Val., Je (Not).

PHYLLODECTA Kirby

15718 **P. americana** Sf. Wilmington, Jl (Shoe); Jay, Jl (Britton); Northampton, Je (Yg); Schuyler Co, Je (H); Ithaca, Aug, *Yuasa* (Vdyk); Catskills (Pears); Oliverea, Je, Sep (Ds, Shoe); Callicoon, Sep (Ds); Schoharie, Je (Not); Windsor, Je (Not); West Pt., as *vulgatissima* (Robn). Wrongly identified as *vitellinae* or *vulgatissima*.

SUBFAMILY GALERUCINAE

TRIRHABDA LeConte

15724 **T. tomentosa** L. **LI:** Rockaway Beach, Jl (Shoe); Glen I. (Sf); Orient, Jl, Montauk, Aug (Ds).

15725 ?**T. brevicollis** Lec. Avon, Jl (Cls).

15726 **T. virgata** Lec. L. Placid, Sep (Eng); Olcott, Jl (Dt); Wilmington, Aug (Ds); Avon, Jl (Cls); Ithaca, Aug–Sep (Dt); Callicoon, Jl, E. Jewett, Aug, Oliverea, Sep (Ds); White Plains, Jl (Sq); **SI,** Sep (Ds); **LI:** Rockaway Beach, Aug–Sep (Shoe); Flushing, Aug (Ds).

15727 **T. canadensis** Kby. Mt. Marcy, Jl, Clyde, Jl (Yg); Wilmington, Jl–Aug (Shoe, Ds); Olcott, Jl (Dt); Akron, Je (Dnd); L. George, Je (Shoe); Albany, Battle, Poughkeepsie, Jl (NYS); **SI,** Je (Ds); **LI:** Brooklyn, Aug (Shoe); Forest Pk., Jl (Martin); Rockaway Beach, Jl (Shoe); Jamaica, Jl (Yg); Wading R., Aug, Yaphank, Jl, Montauk, Sep (Ds).

GALERUCELLA Crotch

15744 **G. americana** Fab. Gloversville, Jl (Yg); E. Aurora, Jl (Dnd); Windsor, Je (Not); Nassau, Poughkeepsie, Jl (Yg); Ulster Co (Nic); West Pt., Jl (Eng); White Plains, May, Aug (Sq); **SI,** Je–Oct (L&D); **LI:** Brooklyn, Aug (Shoe).

15744 **G. cribrata** Lec. Long L. (Ds); Windsor, Je (Not); Nyack, Je (Ds); West Pt., Jl (Eng); White Plains, May–Aug (Sq); **SI,** Jl (Ds); **LI:** Central Pk., Ap (Eng); Cold Sp. Harb., Jl (Brb); Wyandanch, Aug, Little Neck, Dec, Huntington, Aug, Jamaica (Schott); Wading R., Jl (Ds).

15745 **G. sexvittata** Lec. Horicon (Doll); Ithaca, Je (Dt); Windsor, Je (Not).

15746 **G. cavicollis** Lec. Plattsburg, Jl (Ds); N. Elba, Jl (Shoe); Cranberry L., Jl (Drk); N. Pulaski, L. Ontario, Je (Ds); Buffalo; Portage, Je (Ds); Wyoming Co, Je (Ds); Rock City, Je (Ds); Ithaca, Je (Ds, Yuasa); Windsor, Je (Not); Corinth, Je (Yg); Schoharie, Je (Not); Slide Mt., Je–Jl (Shoe, Ds); E. Jewett, Aug, Oliverea, Je (Ds); West Pt. (Robn); White Plains (Sq); **SI,** Je (L&D); **LI:** Yaphank, Jl (Sf).

15747 **G. rufosanguinea** Say. Keene Val., Aug, Newport, May (Yg); Batavia, Je (Ds); Peekskill, May 21 (Fall, Frost); West Pt. (Robn); Mosholu (Sf); **SI,** Ap, Je (Ds); **LI:** Wyandanch, Je (Sf); Rockaway Beach, May (Shoe).

—— **G. kalmiae** Fall. L. Clear, Je 6 (Yg); L. Placid, Sep (Eng); Saranac L., Sep (Shoe); Albany, May 6 (Yg); **LI:** Yaphank, May, Jl (Sf); Rockaway Beach, May (Shoe).

—— **G. spiraeae** Fall. Saranac L., Je, Speculator, Je, Wells, Jl 23, Corinth, May 31, Nassau, Je 23 (Yg); Debruce, Jl (Shoe); Oliverea, Je, Sep (Ds); Slide Mt., Je (Ds); **LI:** Jl (Eng).

15749 **G. notulata** Fab. Cranberry L., Aug (Drk); Binghamton (Franck); West Pt., Je (Sf); **SI** (L&D); **LI:** Rockaway Beach, May (Shoe).

15750 **G. notata** Fab. Letchworth Pk., Sep (Dnd); Westchester Co, Sep (Ds); Mosholu (Sf); Bronx Pk. (Sf); **SI,** Jl (Ds); **LI:** Aqueduct, Sep (Shoe); Wyandanch, Sep (Schott); Wading R., Aug (Sf, Ds); Cold Sp. Harb., Sep (Chitt).

15751 **G. nymphaeae** L. Saranac L., Sep (Shoe, Ndm); Bolton (Eng); Pike, Jl (Ndm); Ithaca, Jl (Dt); Kingston, Jl (Eng); West Pt. (Robn); White Plains, Jl–Oct (Sq); Nyack, Nov (Schott); Van Cort. Pk., May (Sf); **SI,** May–Je, Aug (Ds); **LI:** Flatbush, Jl (Eng); Rockaway Beach, Je (Ds, Shoe); Wyandanch, L. Ronkonkoma, May (Schott); Wading R., Je, Flushing, Aug (Ds).

15752 **G. tuberculata** Say. Keene Val., Aug 3 (NYS); Newport, May 23 (Yg); E. Aurora, Jl (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Windsor, Je (Not); Debruce, Jl (Shoe).

15753 **G. decora** Say. Keene Val., Sep (Eng); Mt. Marcy, Je, *Felt* (Yg); Cranberry L., Jl–Aug, Oct, *Htly* (H, Drk); Saranac L., Je (NYS); Cranberry Cr., Je (Yg); Mt. Whiteface, Jl (Shoe, Ds); Mooers, Sep (Not); Allegany Pk., Jl (Dnd); Ithaca, May–Jl (Dt); Windsor, Je (Not); Schoharie, Je (Not); Karner, May (NYS); Debruce, Jl (Shoe); Southfields, Aug (Schott); Oliverea, Je (Shoe); White Plains, Sep (Sq); **LI:** Rockaway Beach, Je (Schott).

15754 **G. luteola** Mull. (*xanthomelaena* Schrank). ELM LEAF-BEETLE. This common species is undoubtedly generally distributed almost everywhere in the State, having been recorded from about seventy different localities (Sf). Elm. The name *luteola* has priority.

—— **G. vaccinii** Fall. Wells, Jl 18 (Yg); Juanita I., L. George, Sep 13, *Leon* (NYS).

—— **G. alni** Fall. Northville, Jl (NYS).

MONOXIA LeConte

15755 **M. puncticollis** Say. **SI**, Je–Aug, Nov (Ds); **LI**: Promised Land, Sep, Long Beach, Je (Eng); Rockaway Beach, Je, Aug (div.); Cold Sp. Harb., Je (Brb); Central Pk., Je, Aqueduct, Jl (Shoe); Jamaica (Schott); Wyandanch, Jl (Ds, Schott); Orient, Massapequa, Jl (Ds).

DIABROTICA Chevrolat

15769 **D. duodecimpunctata** Fab. TWELVE-SPOTTED CUCUMBER BEETLE. Axton, Je (M&H); Newport, Sep (Yg); Wells, Jl (Yg); Oswego, Sep, *Bks* (Yg); western NY, Jl–Sep (Dnd); Olcott (Dt); Perry, Aug, *Hawley* (Vdyk); Castile, *Brad* (Flet); Geneva, Aug–Sep (Cls); Onondaga Co, Oct, on herbage (H); Westfield, Jl (Yg); Ithaca, Je–Nov, *Yuasa* (Vdyk, Dt); Albany Co, May (Yg); Catskills, Jl (Eng); Oliverea, Sep (Ds); West Pt. (Robn); White Plains, Aug–Sep (Sq); **SI**, Aug–Dec (Ds); **LI**: Rockaway Beach, Je (Eng); Brooklyn, Je, Aug (Shoe); Orient, *Lath* (NYS); Huntington (Schott).

15777 **D. atripennis** Say. Gloversville, Sep, *Alex* (Yg); Olcott, Je–Jl (Dt); Callicoon, Jl (Ds).

15782 **D. vittata** Fab. STRIPED CUCUMBER BEETLE. Western NY, Je–Aug (Dnd); Lowville, (Ds); Schuyler Co, Onondaga Co, May–Je, on herbage (H); Ithaca, Ap–Sep (Dt, Ds); Windsor, Je (Not); Schoharie, Je (Not); West Pt. (Robn); White Plains, May–Jl (Sq); **SI**, Ap, Je, Aug (Ds); **LI**: Cold Sp. Harb., Sep (Eng); Rockaway Beach, Je (Eng); Creedmoor, May (Schott); Brooklyn, May (Shoe); Yaphank, Jl, Central Pk., May, Sands Pt., Oct (Ds); Orient, *Lath* (NYS); Pinelawn, Sep (Ds).

PHYLLOBROTICA Redtenbacher

15787 **P. vittata** Horn. "NY" (Dietz); Ithaca, Jl–Aug, *Yuasa* (Vdyk).

15788 **P. decorata** Say. Mt. Whiteface, Jl (Shoe); Speculator, Je (Yg); Cranberry L., Jl (Drk); W. Winfield, Je, *Leon* (Yg); E. Aurora, Je (Dnd); Ithaca, Je–Jl (Dt, Hoffman); **LI** (Eng).

15792 **P. discoidea** Fab. Cranberry L., Jl (Drk); Stony Pt., Je (Ds); **SI**, Je (Ds); **LI**: Brooklyn, Aqueduct, Jl (Shoe).

15794 **P. limbata** Fab. Newport, Je, Wells, Jl (Yg); Broadalbin, Je, Nassau, Jl (Yg); West Pt. (Robn); **LI**: Rockaway Beach, Je (Eng).

LUPERODES Motschulsky

15815 **L. thoracicus** Melsh. Broadalbin, Je (Yg); Gloversville, Sep (NYS); Conesus L., Je (Ds); Ithaca, Je–Jl (Dt); Schoharie, Je (Not); E. Nassau, Aug; Callicoon, Jl (Ds).

15823 **L. meraca** Say. Big Moose, Aug, Wells, Jl, Newport, Je (Yg); L. Placid, Sep (Shoe); Cranberry L., *Htly* (H); L. Pleasant, Je (Eng); Mt. Whiteface, Jl (Shoe); Batavia, Portage, Wyoming Co, Je (Ds); E. Aurora, Je (Flet, Dnd); Ithaca, Je (Ds, Chitt); W. Danby, May (Ds); Egleston's Glen, L. Keuka, Je (Ds); Cincinnatus, Jl (Flet, Dnd); Schoharie, Je (Not); Corinth, Je (Yg); Albany, Je (Yg); Catskills (Pears); Oliverea, Je (Ds); E. Jewett, Aug (Ds); Greenwood L., Jl (Sf); West Pt., Jl (Eng); Slide Mt., Jl (Shoe); Ft. Montgomery, Je (Schott); Pine I., Je (Ds); **SI** (L&D).

15824 **L. cyanellus** Lec. Olcott, Je (Dt); Ithaca, Jl–Aug, *Yuasa* (Vdyk); Windsor, Je (Not); Oliverea, Je (Ds); **SI** (L&D).

AGELASTICA Redtenbacher

15846 **A. alni** L. **LI:** Brooklyn, Oct (Eng).

PHYLLECTHRUS LeConte

15850 **P. gentilis** Lec. Minnewaska, Aug 25, *Nic* (Frost).

CEROTOMA Chevrolat

15854 **C. trifurcata** Forst. BEAN LEAF-BEETLE. Newport, May (Yg); E. Aurora, Je, Aug (Dnd); Ithaca, Aug–Sep (Dt); Schoharie, Je (Not); West Pt. (Robn); White Plains, Jl–Aug (Sq); Mosholu, May (Yg); **SI,** May, Jl–Sep (Ds); **LI:** Forest Pk., Jl (Martin); Wyandanch, May (Schott); Brooklyn, Aug (Shoe); Baldwin, Je (Yg).

SUBFAMILY HALTICINAE

BLEPHARIDA Rogers

15858 **B. rhois** Forst. Nassau, Je (NYS); Athens, Jl (Schott); Bangall, Sep (Eng); **SI:** south shore, Jl (Ds); Oct (Ds); **LI:** Pinelawn, Oct, Yaphank, Sep (Eng); Wyandanch, Massapequa, Jl (Schott); Orient Pt., Je, *Lath* (Yg).

HYPOLAMPSIS Clark

15861 **H. pilosa** Ill. Windsor, Je (Not); Poughkeepsie, Je (Yg); **LI:** Wyandanch, Dec (Schott).

OEDIONYCHIS Latreille

15865 **O. gibbitarsa** Say. Avon (Cls); **LI:** Rockaway Beach, Ap (Eng); Brooklyn, Ap (Shoe); Wading R., Je (Shoe, Ds); Gardiners I., West Hills, Je (Ds).

15867 **O. thoracica** Fab. Catskills, Jl (Eng); Slide Mt., Je (Shoe); West Pt. (Robn); Mosholu, May (Ds); White Plains, Je (Schott); **SI,** Ap, Jl (Ds); **LI:** Long Beach, May (Eng); Rockaway Beach, May, Wyandanch, Ap (Schott); L. Ronkonkoma, May (Schott); Selden, Aug, Farmingdale, Oct, Yaphank, Jl (Ds).

15868 **O. vians** Ill. Newport, Je (Yg); Egypt's I., Nov (Ds); Olcott, Jl (Dt); Cayuga, May–Sep (Dt); Ithaca, May–Oct, *Hoffman* (Dt, Mat, Biss–CU); Voorheesville, Jl, *Leon* (Yg); Nassau, Aug (Yg); White Plains, Jl 4 (Sq); Pine I., West Pt., Je (Ds); **SI,** Je (Ds); **LI:** Rockaway Beach, May–Je (Eng, Shoe); Wading R., Jl, Aqueduct, Sep (Shoe).

15868a **O. vians** var. **scripticollis** Say. West Pt. (Robn); **LI:** Jamaica, Jl (Eng); Rockaway Beach, May (Ds).

15873 **O. fimbriata** Forst. West Pt. (Robn); **SI,** Je (L&D); **LI:** Promised Land, Je (Eng); Rockaway Beach, May–Je (Shoe); Shinnecock Hills (Ds); Half Way Hollow Hills, Jl (Ds).

15877 **O. miniata** Fab. West Pt. (Robn); **SI:** Great Kills, May (Ds); **LI:** Yaphank, Sep, Montauk Pt., May (Eng); Rockaway Beach, Je–Jl (div.); Wyandanch, Jl, L. Ronkonkoma, May (Schott); Wading R., Sep (Ds, Nic); Fire I., Jl, Amagansett, Sep (Ds).

15886 **O. limbalis** Fab. Newport, May–Je, Elm L., Aug, L. Clear, Je (Yg); Saranac L., Sep (Shoe); Cranberry L., Jl–Aug (Drk); Big Woodhull, Je, *Clms* (Dt); Protection, Jl (Dnd); Ithaca, May–Je, McLean, May (Biss–CU); Ringwood, Jl, *Yuasa* (Vdyk); Windsor, Je (Not); Corinth, Je, Karner, May (Yg); Oliverea, Je, Debruce, Jl (Shoe); West Pt. (Robn); **SI,** Je (Ds); **LI:** Amagansett, May, Yaphank, May, Sep (Eng); Bayshore, Jl (Ols); Central Pk., May (Shoe).

15886a **O. limbalis** var. **subvittata** Horn. Axton, Je (M&H); Saranac L., Aug; Chipmunk Swamp, Vandalia, Je, Mix Cr. Val., Rock City, Je (Biss–CU); Westfield, May (Not); Ithaca, McLean, May (Biss–CU); Windsor, Je (Not); Greenwood L. (Sf); **LI:** Amagansett, May (Eng); Promised Land, Sep (Ds).

15887 **O. sexmaculata** Ill. Schuyler Co, Je (H); Ithaca, Je (Eng, Yg); Poughkeepsie, Je (Yg); Ft. Montgomery, Jl (Schott); West Pt., Je (Ds); Van Cort. Pk. (Pears).

15889 **O. quercata** Fab. Cranberry L., *Htly* (H); Ithaca, Ap (Biss–CU); Windsor, Je (Not); West Pt. (Robn); **SI,** Ap–Je (L&D). These records probably refer to *limbalis* (Sf).

15890 **O. scalaris** Melsh. **SI,** Jl (L&D).

DISONYCHA Chevrolat

15895 **D. pennsylvanica** Ill. Newport (Yg); Saranac Inn, Aug (Yg); Mt. Whiteface, Jl (Shoe); Rochester, Je (Biss–CU); Ithaca, Ap–Sep (Dt); Nassau, May (Yg); Pine I., Je (Ds); Slide Mt., Jl (Shoe); West Pt. (Robn); **SI,** May–Jl (Ds).

15895 **D. pennsylvanica** var. **pallipes** Cr. Mt. Whiteface, Jl (Shoe); Mt. Seward, Je (M&H); Sodus Pt., Sep (Yg); Rochester Jct., Je (Biss–CU); Castile, *Brad* (Flet); Ithaca, Mar–Sep, *Yuasa* (Vdyk, Biss–CU, Yg); Albany, Aug (Yg); **SI** (Ds); **LI:** Brooklyn, Rockaway Beach, May (Shoe); Cold Sp. Harb., Jl (Brb).

—— **D. pennsylvanica** var. **parva** Blatch. Madison Co, May, herbage (H); Horicon, Aug (Doll); Montezuma, Aug, 1886 (Biss–CU); Callicoon, Jl (Ds); **LI:** Wading R., Je (Ds).

15898 **D. caroliniana** Fab. Ithaca, Je (Hoffman); West Pt. (Robn); **SI,** Je (L&D); **LI:** Yaphank, Aug–Sep (Eng, Shoe); Long Beach, May, Amagansett, Aug, Cold Sp. Harb., Sep (Eng); Wyandanch, May

(Sf); Wading R., May, Montauk (Ds); Rockaway Beach, May (Shoe); Huntington, Feb (Schott); Orient, May, *Lath* (Yg).

—— **D. davisi** Sf. **LI:** Yaphank, Jl (Ds); Wyandanch, Jl (Schott).

15906 **D. triangularis** Say. THREE-SPOTTED FLEA BEETLE. Clyde, Severance, Aug, *Blanke*, Denmark, May (Yg); Rochester Jct., Je (Biss–CU); Honeoye Falls, Je (Ds); Olcott, May–Aug (Dt); Castile, *Brad* (Flet); Avon, May, Geneva, Oct (Cls); Westfield, Je (Yg); Ithaca, Aug (Biss–CU); Callicoon, Jl (Ds); West Pt. (Robn); **SI** (L&D); **LI:** Brooklyn, Jl–Aug (Shoe, Eng); Rockaway Beach, May, Dec (Shoe, Schott).

15907 **D. xanthomelaena** Dalm. SPINACH FLEA BEETLE. Newport, May (Yg); Hubbardsville, Je (Biss–CU); Rochester Jct., Je (Biss–CU); Castile, *Brad* (Flet); Avon, Feb, and Geneva, Ap (Cls); E. Aurora, May–Je, Aug (Dnd); Westfield, May (Not); Ithaca, Ap–Nov 30 (Dt, Biss–CU); West Pt. (Robn); Bronx Pk. (Sf); **SI,** Mar–Dec (L&D); **LI:** Rockaway Beach, Je, Aqueduct, Jl (Shoe); Huntington, Mar, Little Neck, Ap (Schott); Orient, Ap, *Lath* (Yg).

15911 **D. collata** Fab. **SI,** Je (L&D); **LI:** Flatbush, Nov (Eng); Central Pk., Ap (Schott); Rockaway Beach, May (Shoe); Gardiners I., Aug, Pinelawn (Ds); Orient Pt., Jl, *Lath* (Yg).

HALTICA Geoffroy

15916 **H. bimarginata** Say. Wilmington, Jl (Shoe); Plattsburg, Jl (Ds); N. Elba, Jl (Wat); L. Pleasant (Lint); Jay, Jl (Britton); Corinth, Jl (Yg).

15917 **H. chalybea** Ill. GRAPEVINE FLEA BEETLE. Newport, May, Canandaigua, Aug (Yg); Cranberry L., Jl (Drk); L. Ontario, near Pulaski, Je (Ds); Castile, *Brad* (Flet); Onondaga Co, May–Je (H); western NY, May–Sep (Dnd); Schuyler Co (?), May–Je (H); Conesus L., Je (Ds); Horicon, Aug (Doll); Slaterville, Je, Ithaca, May–Aug (Dt); West Pt. (Robn); **SI,** May (Ds); **LI:** Aqueduct, Mar, Rockaway Beach, May (Shoe); Gardiners I., Selden, Aug (Ds); Yaphank (Eng).

—— **H. betulae** Sf. Ithaca, Je, *Dt* (Sf); Chenango Co, Jl, *Shoe* (Sf); Oliverea, Je (Shoe). On birch (Shoe).

—— **H. gloriosa** Blatch. **LI:** Yaphank, Je (Sf). On wild rose (Sf).

15920 **H. kalmiae** Melsh. Mooers, Sep (Not); Olcott, May–Je (Dt); Ithaca, May–Je (Dt); Windsor, Je, Schoharie, Je (Not); Bear Mt., Aug (Schott); Stony Pt., Je (Ds); Peekskill, May (Sherm); **SI,** May, Aug–Sep (Shoe, Ds); **LI:** Yaphank, May–Jl (Eng). On laurel.

15920 **H. ignita** Ill.[56] West Pt., Je, Pine I. (Sf); Bronx Pk. (Sf). Recorded on Prunus.

15921 **H. rosae** Woods. Ithaca, May, *Bish* (Hoffman); Pomona, Ap (Hoffman); **SI,** Je (Ds); **LI:** Amagansett, May (Sf). On wild rose.

—— **H. woodsi** Isely. Olcott, May, *Dt* (Sf); Niagara Falls; Ithaca, May, *Dt* (Sf); Ramapo, Je (Ds); **LI:** Mastic, Je (Murphy); Half Way Hollow Hills, Jl (Ds).

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[56] Records of the strawberry flea beetle in economic literature as *H. ignita* apparently refer to a complex of *H. kalmiae, ignita, rosae,* and possibly one or two other allied species (Sf).

15922 **H. corni** Woods. Olcott, Ap–Je, *Dt* (Sf).

15923 **H. carinata** Germ. Mt. Whiteface, Jl (Shoe); Onondaga Co, Ap, hibernating about stump (H); Grand I., Aug (Hoffman); Tompkins Co, Je (BM); Slaterville, Je; **LI:** Amagansett, May (Eng); Flushing, Dec (Bell). On Ulmus.

15925 **H. aenescens** Blatch. Plattsburg (Shoe).

15926 **H. litigata** Fall. **LI,** Jl (Shoe); Maspeth, Long Beach, Je (Schott).

—— **H. blanchardi** Fall. **LI:** Promised Land (Eng); Wading R., May (Schott); Amagansett, Sep (Ds).

15937 **H. evicta** Lec. var. **shoemakeri** Sf. Plattsburg, Catskills, Je (Shoe).

15942 **H. marevagans** Horn. Karner, Jl (Yg); West Pt. (Robn); Rockland, Aug (Martin); **SI,** Je (Ds); **LI:** Manorville, Sep (Eng); Rockaway Beach, Je–Jl (Eng, Shoe); Brooklyn, Sep (Shoe); Cold Sp. Harb. (Chitt); Long Beach, Aug (Schott).

15949 **H. fuscoaenea** Melsh. Hope, Aug (Hoffman); Gloversville, Ap (Fall); McLean Bogs, Aug, Dt (Vdyk); Windsor, Je (Not); **SI,** Je (L&D).

15950 **H. knabi** Blatch. **SI,** Je (Ds).

15955 **H. rufa** Ill. West Pt. (Robn); Greenwood L. (Sf); Van Etten, May (Hoffman); L. Katharina, Oct (Yg); **SI** (L&D).

CHALCOIDES Foudras

15968 **C. fulvicornis** Fab. Widely distributed, occurring almost everywhere in the State (Sf). Peru, Je (Biss–CU); Mt. Whiteface, Jl (Shoe); Mooers, Sep (Not); Plattsburg, Jl (Ds); Oneida L., Aug (Drk); Westfield, May (Not); Onondaga and Schuyler Counties, May–Je, flying, beating trees (H); Hemlock L., Aug, Honeoye Falls, May–Aug, Rochester Jct., Je, Canton, Je, Freeville, Jl, Lyons, Je (Biss–CU); Howland I., Nov (Biss–CU); Olcott, Mar–Je (Dt); Yates Co (Ds); Ithaca, Ap–Sep (Dt, Biss–CU); Durlandville, Je, *FrostSW* (Dt); Windsor, Schoharie, Je (Not); McLean, May–Je, Ringwood, Je (Biss–CU); E. Jewett, Aug (Ds); Debruce, Jl (Shoe); West Pt., Pine I., Je (Ds); Southfields, May (Schott); **SI,** Je (Ds); **LI:** Je (Eng); Brooklyn, May (Shoe); Huntington, Sep (Schott); Orient (Ds). As *helxines* in collections (Sf).

15968 **C. fulvicornis** var. **violacea** Melsh. Peru, Je, Rochester Jct., Je, Ithaca, Ap–Jl, Ringwood, Je, McLean, May–Je, Ellis to Slaterville, Je, Caroline, Je, Rhinebeck, Jl (Biss-CU); Castile, *Brad* (Flet); Wyoming, Je (Ds); Rock City, Je (Ds); **LI:** Yaphank, Jl (Sf).

CREPIDODERA Chevrolat

15969 **C. erythropus** Melsh. Conesus L., Je (Ds); Ithaca, Ap–Je, *Bish* (Dt, Yg, Biss–CU); Poughkeepsie, May (Yg); Windsor, Schoharie, Je (Not); West Pt., Je (Sf); Westchester Co (Ds); **SI,** Je (L&D); **LI:** Central Pk., Ap–May (Shoe, Eng); Yaphank, May (Eng, Ds); Huntington, Je, Wyandanch, May, Oyster Bay, Jl (Schott); Half Way Hollow Hills, Jl, Wading R., May (Ds).

15974 **C. atriventris** Melsh. Newport, May (Yg); Johnstown, Ap (Alex–NYS); Olcott, Feb, Je (Dt); Ithaca, Aug–Sep (Dt, Hoffman); McLean, May (Biss–CU); Catskills (Pears); West Pt. (Robn); **SI** (Ds); **LI:** Brooklyn, Je, Rockaway Beach, May (Shoe).

HIPPURIPHILA Foudras

15977 **H. modeeri** L. Albany (Hoffman); Ithaca, *Frost*, on Rumex.

EPITRIX Foudras

15982 **E. cucumeris** Harr. POTATO FLEA BEETLE. Widely distributed, and occurring almost everywhere in the State (Sf) on a variety of field and garden products. Peru, Je, Wilmington, Aug, Pulaski, Je, Honeoye Falls, May–Aug, Rochester, May, Newark, Jl, Indian Falls, Je, Waterville, May–Je, E. Bethany, Jl, Dunkirk, Aug, Rock City, Je, Ithaca, May–Aug, McLean, May–Jl, Ringwood, Je, Ellis to Slaterville, Je, Caroline, Je, Freeville, Aug, W. Danby, Aug, Spencer L., Je, Willseyville, May (Biss–CU); Schuyler, Onondaga, and Madison Counties, May–Je, herbage (H); Schoharie, Windsor, Je (Not); Ramapo, May (Ds); West Pt. (Robn); **SI,** Je–Sep (Ds); **LI:** Greenport, Aug, Flatbush, Ap, Yaphank, May (Eng); Rockaway Beach, May (Eng, Shoe); Wading R., Aug, Maspeth, May, Fire I., Aug, Central Pk., May (Ds); Massapequa, May (Shoe); Wyandanch, Jamaica, May (Schott); Farmingdale, Jl, Nassau Co, May (Biss–CU).

15986 **E. parvula** Fab. Schuyler, Onondaga, and Madison Counties, May–Je, herbage (H); Van Cort. Pk., Aug (Sf); **LI:** Wyandanch, Nov (Schott).

ORTHALTICA Crotch

15988 **O. copalina** Fab. Newport, Je (Yg); Pike (Yg); Westfield, Je (Yg); Schuyler Co, Je (H); Ithaca, Je–Aug (Vdyk, Dt, Biss–CU); Schoharie, Je–Jl (Not, Lint); Poughkeepsie, Je (Yg); Middletown, Jl (Biss–CU); Debruce, Jl (Shoe); Oliverea, Je (Ds); West Pt., Je (Ds, Robn); Stony Pt., Je (Ds); **SI,** Je (Ds); **LI:** Brooklyn, Jl (Shoe); Cold Sp. Harb., Jl (Brb).

LUPERALTICA Crotch

15991 **L. fuscula** Lec. Ulster Co, Sep (Nic); Ft. Montgomery, Sep (Schott); Howland I., Je, *Dt* (Vdyk).

MANTURA Stephens

15993 **M. floridana** Cr. Onondaga Co, May, herbage (H); Pike, May (Yg); Ithaca, May–Nov 13 (Biss–CU); Windsor, Je (Not); West Pt. (Robn); Mosholu (Sf); **SI,** Mar–Dec (L&D).

CHAETOCNEMA Stephens

15995 **C. cribrata** Lec. McLean, Je (Biss–CU).

15998 **C. subcylindrica** Lec. Westfield, May (Not); Ithaca, May, McLean, May–Je (Biss–CU); Debruce, Jl (Shoe); Howland I., Je (Dt).

16001 **C. denticulata** Ill. Olcott, May–Jl (Dt); E. Aurora, Je–Oct (Dnd); West Pt., Sep (Robn); Bronx Pk. (Sf); **SI,** Jl (Shoe); **LI:** Flatbush, Dec (Eng); Brooklyn, Rockaway Beach, May (Shoe).

16002 **C. cribrifrons** Lec. **SI:** Tottenville, Jl (Woodr). Determination queried by Sf.

16006 **C. minuta** Melsh. Newport, May (Yg); Windham, Oct (Dt); Onondaga Co, May (H); Westfield, May (Not); Ithaca, Jl (Dt, Vdyk); McLean, May (Biss–CU); Middletown, Jl (Biss–CU); Albany, May (Yg); Mosholu (Sf).

16013 **C. parcepunctata** Cr. Ithaca, May (Vdyk); **SI**, Jl (L&D).

16014 **C. pulicaria** Melsh. West Pt. (Robn); Suffern, May (Love); **SI**, Jl, Nov (L&D); **LI**: Flatbush, Mar (Eng); Rockaway Beach, May, Brooklyn, Aug–Sep (Shoe).

16016 **C. confinis** Cr. SWEET POTATO FLEA BEETLE. Onondaga Co, May (H); Ithaca, Je–Aug (div.); Freeville (Biss–CU); Albany, Rensselaer, Poughkeepsie, May (Yg); **SI**, Jl (L&D).

16020 **C. quadricollis** Schwz. **LI**: Glen I. (Sf).

SYSTENA Clark

16022 **S. hudsonias** Forst. SMARTWEED FLEA BEETLE. Newport, Northampton, Je (Yg); Canton, Je (Biss–CU); Rochester Jct., Je, Honeoye Falls, Sonyea, Je (Biss–CU); Portageville, Je (Ds); Buffalo (Forst); Westfield, Je (Yg); Fredonia (Felt); Castile, *Brad* (Flet); Crosby Landing, Je (Biss–CU); Ithaca, Je–Jl (div.); Ringwood, McLean, Je (Biss–CU); Windsor, Schoharie, Je (Not); Slingerland, Jl, Albany, Aug, Schodack Landing, Je (Yg); Nyack, Je (Ds); West Pt. (Robn); Middletown, Jl (Biss–CU); Ramapo, May (Ds, Love); Van Cort. Pk., Jl (Biss–CU); **SI**, Je (Ds); **LI**: Yaphank, Rockaway Beach, Je (Eng); Cold Sp. Harb., Jl (Brb); Gardiners I., Aug, Wading R., Je (Ds).

16023½ **S. frontalis** Fab. RED-HEADED FLEA BEETLE. Mooers, Sep (Not); Saranac L., Sep (Shoe); Syracuse, Aug (Felt); Perry, Aug, *Hawley* (Vdyk); Pike, Aug (Yg); Geneva, Aug, *Pollier* (Lint); Sheridan, Fredonia, Potter Swamp, Aug (Biss–Cu); Ithaca, Je–Sep (Dt, Biss–CU); Coy Glen, Michigan Swamp, Je (Biss–Cu); Schenectady, Jl, Scotia, Aug (Yg); central NY, Aug–Sep (Chitt); Callicoon, Jl (Ds); Catskills (Pears); West Pt. (Robn); **SI** (L&D); **LI**: Wyandanch, Je (Schott); Brooklyn, Sep (Shoe); Orient, *Lath* (NYS).

16027 **S. elongata** Fab. Oliverea, Sep (Ds); **LI**: Bay Shore, Jl (Ols).

16028 **S. taeniata** Say. PALE-STRIPED FLEA BEETLE. Rochester Jct., Je–Jl (Biss–CU); Olcott, Jl (Dt); E. Aurora, Jl–Aug (Dnd); Newark, *Stuart*; S. Byron (Felt); Ithaca, Jl–Aug, Oct (Dt, Biss–CU); Middletown, Jl (Biss–CU); Albany, Oct (Yg); Schoharie, Je (Not); Alps, Aug (Martin); **LI**: Huntington, Jl (Schott); Rockaway Beach, Je (Ds); Central Pk., Je (Shoe).

16029 **S. marginalis** Ill. Hamburg, Aug (Yg); Ithaca, Aug–Sep (Dt); Coy Glen, Aug, *Dt* (Vdyk); L. George, Aug (Zab); Albany, Sep (Yg); Ulster Co, Sep (Sf, Shoe); West Pt. (Robn); Ft. Montgomery, Sep (Schott); Westchester Co, Sep (Ds); **SI**, Je, Aug–Sep (Ds, Pears); **LI**: Yaphank, Sep (Eng); Bay Shore, Jl (Ols).

LONGITARSUS Latreille

16034 **L. turbatus** Horn. Ithaca, Ap–May (div.–CU); **SI** (L&D).

16046 **L. pygmaeus** Horn. Schoharie, Je (Not).

16047 **L. testaceus** Melsh. Madison Co, May, on herbage (H); Honeoye Falls, Aug (Sf–CU); Olcott, Feb (Dt); Ellis, Tompkins Co, Je (CU); **SI**, Je (L&D).

16049 **L. melanurus** Melsh. Ithaca, Ap–Je (Biss–CU); Slaterville, May (Biss–CU) Willseyville, May (Biss–CU); New Baltimore, May (Yg); **SI** (L&D); **LI:** Bellport, Je, *Nic* (Yg).

16051 **L. insolens** Horn. Newport, May–Je (Yg); Suffern, May (Love); **SI,** Jl (L&D).

GLYPTINA LeConte

16060 **G. abbreviata** Gent. Ithaca, Ap (Sf–CU); Onondaga Co, May (H); Durlandville, May, *FrostSW* (Dt).

16061 **G. spuria** Lec. Ithaca, Ap–Je (Dt, Biss–CU); Albany, Je (Hoffman); Ft. Edward, Je (Biss–CU); Bronx Pk. (Sf); **LI:** Massapequa, May (Shoe).

PHYLLOTRETA Foudras

16065 **P. sinuata** Steph. SINUATE-STRIPED FLEA BEETLE. Potsdam, Je (Yg); Hubbardsville, Je, Rochester Jct., May–Je, Ithaca, May–Jl, Nov 13 (Biss–CU); Pike, Je (Yg); Ft. Montgomery, Je (Schott); **SI,** Je–Jl (L&D); **LI:** Yaphank, May (Eng); Cold Sp. Harb. (Brb); Orient, *Lath* (NYS); Bay Shore (Ols).

16066 **P. vittata** Fab. STRIPED CABBAGE FLEA BEETLE. Hubbardsville, Je (Biss–CU); Alexander, Jl (Biss–CU); Gloversville, Je (Yg); Clinton, May (Yg); Honeoye Falls, Jl (Biss–CU); Castile, *Brad* (Flet); Onondaga Co, May (H); Ithaca, May–Aug, Nov (Dt, Biss–CU); McLean, May–Je (Biss–CU); Ulster Co, Sep (Shoe); West Pt. (Robn); **SI,** Je, Aug (L&D); **LI:** Nassau Co, Newtown, Ap (Biss–CU).

16068 **P. robusta** Lec. Cranberry L., *Htly* (H).

16074 **P. bipustulata** Fab. Newport (Yg); E. Aurora, May (Dnd); Westfield, May (Not); Ithaca, Ap, McLean, May (Biss–CU); West Pt. (Robn); Pine I., May (Schott); **SI,** Je (L&D); **LI:** Rockaway Beach, May (Eng, Shoe); Brooklyn, Aug (Shoe).

16075 **P. armoraciae** Koch. HORSE-RADISH FLEA BEETLE. Rochester Jct., Je (Biss–CU); Olcott, Ap–May (Dt); E. Aurora, May (Dnd); Schuyler Co, Je (H); Ithaca, May, *Bish* (Yg, Biss–CU); McLean, Je (Biss–CU); Ringwood, Jl, *Yuasa* (Vdyk); Schoharie, Je (Not); West Pt. (Robn); **LI:** Rockaway Beach, May (Shoe); Flushing (Leon); Newtown, Ap (Biss–CU).

16076 **P. chalybeipennis** Cr. **SI,** Aug (Ds); **LI:** (Sf); Rockaway Beach, Aug, Oct (Schott, Shoe); Orient, Ap, *Lath* (Yg); Gardiners I., Je (Yg).

16081 **P. picta** Say. Ft. Montgomery, Jl, Nyack, Je (Ds); **SI** (L&D).

DIBOLIA Latreille

16086 **D. borealis** Chev. Peru, Jl (Biss–CU); Newport, May (Yg); Oneida L., Aug (Drk); N. Pulaski, Je (Ds); Rochester Jct., Je–Jl (Biss–CU); Olcott, Ap (Dt); Castile, *Brad* (Flet); Pike, Mar (NYS); Honeoye Falls, Ap, Je (Ds, Biss–CU); Westfield, May (Not); Mix Cr. Val. (Biss–CU); Rock City, Je (Ds, Biss–CU); Keuka Pt., Oct, Schurgers Gorge, Nov 24 (Biss–CU); Schuyler, Onondaga Co, Ap–Je, on herbage, flying (H); Ithaca, Mar–Nov, *Frost* (Dt, Bks, Biss–CU); McLean, May–Je (Biss–CU); Schoharie, Je (Not); Slingerland, Jl (NYS); Albany, Jl (Yg); Cortland, Jl (Bks); Middletown, Jl, Rhinebeck, Jl

(Biss–CU); West Pt. (Robn); Westchester Co (Ds); **SI,** Jan (Ds); **LI:** Rockaway Beach, Jl, Long Beach, May (Eng); Brooklyn, May, Massapequa, Jl (Shoe).

16088 **D. libonoti** Horn var. (?). Ringwood, Je (Sf–CU); Slaterville, Je (Sf–BM).

PSYLLIODES Latreille

16089 **P. punctulata** Melsh. HOP FLEA BEETLE. Newport, Glens Falls, Je (Yg); Hubbardsville, Je, Waterville, May (Biss–CU); L. Placid, Sep (Shoe); Howland I., Aug (Biss–CU); Honeoye Falls, Aug (Biss–CU); Rochester Jct., May–Jl (Biss–CU); Olcott, Jl (Dt); Westfield, May (Not); Potter Swamp, Aug (Biss–CU); Rock City, Je (Ds); Ithaca, Ap–Aug (Biss–CU); McLean, May–Je (Biss–CU); Madison Co, May, on herbage (H); Ulster Co, Sep (Nic); Dormansville (Biss–CU); **SI,** Mar (L&D); **LI** (Eng).

16090 **P. convexior** Lec. Ithaca, Ap, Nov (Biss–CU).

SUBFAMILY HISPINAE

STENISPA Baly

16094 **S. metallica** Fab. Poughkeepsie, May (Yg); Pine I., May (Schott); West Pt. (Robn); **SI,** May–Je (L&D); **LI:** Brooklyn, Jl, Massapequa, Je (Shoe).

ANOPLITIS Chapuis

16105 **A. inaequalis** Web. Newport, Je (Yg, Felt); Olcott, Je (Dt); Avon, Je, Aug (Cls); E. Aurora, Je (Dnd); Westfield, May (Not); Castile, *Brad* (Flet); Schuyler Co, Je (H); Ithaca, May–Sep, *Yuasa* (Vdyk, Dt); Windsor, Je (Not); Trenton Falls, Je (Cy); Phoenicia, Aug (EPV); Albany, Je (Yg); Poughkeepsie, May (Yg); Nyack, Je (Ds); Ramapo, May, Ft. Montgomery, May (Ds); West Pt. (Robn); White Plains, all summer (Sq), as *nervosa* Panz.; **SI,** Je (Ds); **LI:** Yaphank, May–Je (Eng); Flushing, Je, Aug (Eng, Ds); Fire I., Aug, Massapequa, Jl (Ds); Orient, *Lath* (NYS).

CHALEPUS Thunberg

16109 **C. bicolor** Oliv. West Pt. (Robn); Ft. Montgomery, Je (Schott); White Plains, May (Sq); **SI,** Jl (Ols); Watchogue, Sep (Ds); **LI:** Rockaway Beach, May (Eng).

16111 **C. scapularis** Oliv. White Plains, all summer (Sq); Holersville, Je (Leon); West Pt. (Robn); **SI,** May–Je, Aug (Ds); **LI:** Yaphank, May, Flushing, Je, Rockaway Beach (Eng); Greenport, Aug (Eng, Ds); Wyandanch, Jl (Schott).

16113 **C. dorsalis** Thunb. E. Aurora, Sep (Dnd); McLean Bogs, Aug, *Yuasa* (Vdyk); Ithaca; Schoharie, Je (Not); Nassau, Je (Hartman); Poughkeepsie, May (Yg); West Pt. (Robn); **SI,** May–Je, Aug (Ds); **LI:** Hempstead Plains, May (Eng); south of Smithtown, Je, Wading R., May (Ds); Syosset, Aug (NYS); Central Pk., May, Yaphank, Aug (Ds); Rockaway Beach (Shoe); Oakdale, Aug (Schott); Wyandanch, Jl, Oyster Bay, May (Schott); Jamaica, Aug (EPV); Orient, *Lath* (NYS).

16114 **C. horni** Sm. **SI,** on Tephrosia (Rbts).

BALIOSUS Weise

16116 **B. ruber** Web. N. Pulaski, Je (Ds); Olcott, Je–Jl (Dt); E. Aurora, May–Je (Dnd); Conesus L., Je (Ds); Ithaca, May, Aug (Dt); Windsor, Je (Not); Bangall, Sep (Eng); West Pt. (Robn); **SI,** Ap–Oct (L&D); **LI:** Yaphank, May, Promised Land, Sep (Eng); Rockaway Beach, May (Eng, Shoe); Wyandanch, Jl, Little Neck, Ap (Schott); Orient, Sep (Ds, Schott); Wading R., Selden, Aug (Ds).

UROPLATA Baly

16126 **U. porcata** Melsh. "NY" (Dietz); Ithaca, Je (Hoffman); Karner, May (Yg); West Pt. (Robn); **SI,** Je–Jl (L&D).

MICRORHOPALA Baly

16129 **M. vittata** Fab. Honeoye Falls, Je (Ds); Onondaga Co, under stone (H); E. Aurora, Je, Wales, Jl (Dnd); Windsor, Je (Not); Thomson, May (Leon); Poughkeepsie, Jl, Kinderhook, Oct, Watervliet Reservoir, Nassau L., Sep (Yg); E. Jewett, Aug (Ds); West Pt. (Robn); White Plains, May–Je (Sq); **SI,** May, Jl (Ds); **LI:** Jamaica (Vdyk); Forest Pk., Je (Lg); Rockaway Beach, Ap–May, Central Pk., Ap, Flushing, Je (Eng); Wading R., Je (Ds); Brooklyn, May (Shoe); Little Neck, Aug, Cedarhurst, Dec (Schott).

16130 **M. xerene** Newn. Greenwood L. (Sf); Oliverea, Je, Debruce, Jl (Shoe); West Pt. (Robn); Ramapo, May (Ds); White Plains, Jl–Aug (Sq).

16133 **M. excavata** Oliv. Speculator, Je (Yg); L. Placid, Aug (EPV); Gloversville, Jl (Alex); Windsor, Je (Not); Oliverea, Je (Ds, Shoe); Debruce, Jl (Shoe); White Plains, May–Jl (Sq); West Pt., Je (Ds); Van Cort. Pk. (Sf); **SI,** May (L&D); **LI:** Cold Sp. Harb., Jl (Brb).

16135 **M. cyanea** Say. Cranberry L., Aug (Drk); Ithaca, Je (Dt).

SUBFAMILY CASSIDINAE

CHELYMORPHA Boheman

16139 **C. cassidea** Fab. Newport (Yg); Alder Cr., Jl (Yg); Ilion, May (Yg); Castile, *Brad* (Flet); Geneva, Utica, Aug (Cls); Ithaca, May–Jl (div.); Ringwood, Jl, *Yuasa* (Vdyk); Schenectady, May, Poughkeepsie, May (Yg); Rensselaer, May (House); West Pt. (Robn); Ft. Montgomery, Aug (Schott); White Plains, May (Sq); **SI,** Ap, Je, Aug (Ds); **LI:** Flatbush, May–Je (Sf, Ds); Flushing, Dec, Wading R., Je (Ds); Rockaway Beach, May–Je, Sep (Shoe).

PHYSONOTA Boheman

16142 **P. unipunctata** Say. Blossom, Aug (Dnd); Ithaca, Jl–Sep (Dt); Windsor, Je (Not).

16142a **P. unipunctata** var. **quinquepunctata** Walsh. **LI** (Eng).

CASSIDA Linnaeus

16147 **C. flaveola** Thunb. Suffern, May (Sf).

JONTHONOTA Spaeth

16149 **J. nigripes** Oliv. Oneida L., Aug (Drk); West Pt. (Robn); **LI:** Rockaway Beach, May (Ds, Shoe).

CHIRIDA Chapuis

16152 **C. guttata** Oliv. Ilion, May (Yg); Onondaga Co, May (H); E. Aurora, May–Sep (Dnd); Pike, Aug (Yg); Portageville, Je (Ds); Castile, *Brad* (Flet); Westfield, May (Not); Ithaca, Je–Jl (Dt, Vdyk); Windsor, Je (Not); Albany, May (Yg); West Pt. (Robn); White Plains, Je (Sq); Ramapo, Jl (Ds); **SI,** Je–Aug (Ds); **LI:** Long Beach, Je (Eng); Far Rockaway (Johnson); Flatbush, Mar, Orient, Jl (Ds); Rockaway Beach, May (Shoe); Wading R., May–Je (Ds, Schott); Glendale, Ap (Schott).

16152a **C. guttata** var. **pennsylvanica** Sp. Ithaca, Je (Dt); White Plains, Je (Sq); **LI,** Mar, Aug (Eng).

16152b **C. guttata** var. **lucidula** Boh. **LI:** Flatbush, Ap, Aug (Eng).

DELOYALA Chevrolat

16155 **D. clavata** Fab. Geneva, Mar–Je (Cls); Ithaca, Je–Jl, Sep (Dt, Vdyk); Albany, Jl, Poughkeepsie, Je, Warwick, Jl (NYS); Amenia, Je (Yg); West Pt., Je–Jl (Eng, Ds); White Plains, Je (Sq); **SI,** Je (Ds); **LI:** Yaphank, Sep (Eng); Wading R., Je–Jl (Sf, Ds); Huntington, Jl, Wyandanch, Je (Schott); Central Pk., May (Ds).

METRIONA Weise

16157 **M. bicolor** Fab. Newport, Ogdensburg, Je, Ilion, May (Yg); Oneida L., Aug (Drk); western NY (Dnd); Schuyler, Onondaga Co, May–Je (H); Lowville (Ds); N. Pulaski, Je (Ds); Pike, Jl (Yg); Ithaca, May–Aug (Dt, Vdyk); Windsor, Je (Not); L. George, Jl (Yg); West Pt. (Robn); White Plains, May (Sq); **SI,** May (Ds); **LI:** Flatbush, Mar (Eng); Whitestone, Sep (Hoffman); Rockaway Beach, May (Eng, Ds); Amagansett, Aug (Sf); Central Pk., May–Je (Shoe, Ds); Jamaica, Yaphank, Jl (Schott); Central Pk. (Ds); New Utrecht, Flushing, Gardiners I., Aug (Ds); Orient Pt., Je (Lath).

16159 **M. purpurata** Boh. Severance, Je (Bks); Syracuse, Sep (Drk); Rensselaer, May (Yg); Ilion, May (Yg); **LI** (Eng).

FAMILY MYLABRIDAE

(*Bruchidae*)

MYLABRIS Mueller

(*Bruchus* Linnaeus)

16165 **M. pisorum** L. PEA WEEVIL. Generally distributed throughout the State, infesting dried peas.

16166 **M. rufimanus** Boh. BROAD BEAN WEEVIL. Buffalo (Z&R); Poughkeepsie (WBDwight).

16172 **M. quadrimaculatus** Fab. FOUR-SPOTTED BEAN WEEVIL. NYC, in Russian peas. (Kaeber, Ent. News, vol. 24, p. 43, 1913.)

16175 **M. discoideus** Say. Cayuga L., Jl, swept from goldenrod and other flowers (Zab); **SI**, Je 19 (L&D).

16188 **M. cruentatus** Horn. **LI**: Amagansett, Aug, *Eng* (Sf).

16190 **M. nigrinus** Horn. **SI** (L&D); **LI**: Central Pk., Ap (Eng).

16211 **M. longistilus** Horn. **LI**, *Eng* (Sf).

16218 **M. alboscutellatus** Horn. **SI**, Je, Aug, Sep (L&D); **LI**: Jamaica, Jl, *Eng* (Sf).

16221 **M. obtectus** Say. BEAN WEEVIL. Generally distributed throughout the State, infesting dried beans.

16222 **M. hibisci** Oliv. **SI**, often common in seeds of the marsh mallow in Sep (L&D); **LI**: Rockaway Beach, *Dietz* (Sf).

16231 **M. calvus** Horn. Ithaca, Jl 23 (NYS); **LI**: Yaphank, Jl, Oct, Hempstead Plains, May, *Eng* (Sf).

16236 **M. musculus** Say. Mosholu, Aug (NYS); **SI**, Je (L&D).

16244½ **M. lentis** Froel. Buffalo, in lentils in a store (Lint); Ithaca (CU).

SPERMOPHAGUS Schönherr

16246 **S. hoffmannseggi** Gyll. Ithaca, Jl (CU); **SI**, Nov, from seeds of honey locust (L&D); Van Cort. Pk. (Sf).

ZABROTES Horn

16251 **Z. subnitens** Horn. **LI**: Yaphank, Je (Sf).

16254 **Z. pectoralis** Sharp. Perry, bred from S. Am. beans by I. M. Hawley (Vdyk).

RHYNCHOPHORA [57]

FAMILY BRENTIDAE

EUPSALIS Lacordaire

16256 **E. minuta** Dru. Rochester (M&W); Buffalo (Z&R); Chautauqua, Je (Ds); Ithaca, Je, on oak and hemlock; West Pt., Je (Ds); Cairo, Jl (Lg); Bronx (Lg); **SI**, May–Sep, under oak, poplar, beech, maple, and chestnut (L&D); **LI**, Je (Ds).

FAMILY PLATYSTOMIDAE

ORMISCUS Waterhouse

16263 **O. saltator** Lec. Rochester (M&W); Buffalo (Z&R); E. Schodack, Jl (NYS); Mosholu, Bronx, Je (Joutel); **SI**, Je, in dead wood of deciduous trees (L&D); **LI**: Rosedale, Je (Nic).

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[57] The list in this group has, with the exception of the family Scolytidae, been compiled by Chas. W. Leng. He has checked all of the records as far as practicable, but is not to be held responsible for those not credited directly to him. About fifty species more have been recorded from neighboring States but are here omitted because of the lack of definite New York localities. Mr. Fall has looked over Apion; Mr. Satterthwait has contributed valuable records in Calendra; Mr. Nicolay and Mr. Buchanan have supplied many records throughout the group and have gone over the manuscript.

EUSPHYRUS LeConte

16275 **E. walshii** Lec. Rochester (M&W); Buffalo (Z&R); Genesee Co, Je (Lg); **SI,** Je, on hickory (L&D).

GONOTROPIS LeConte

16278 **G. gibbosus** Lec. Big Moose, Jl (NYS).

EURYMYCTER LeConte

16279 **E. fasciatus** Oliv. Newport (NYS); Mt. Whiteface, Jl (Lg); Brant L., Jl, *Doll* (Sf); Cranberry L. (H); Onondaga, Sep (NYS); Buffalo (Z&R); Pike (NYS); Castile, Je, *Brad* (Flet); Ithaca, Aug (Dt); Windsor, Je (Not); Harrison, Jl (Sf); **SI,** Mar, on fungus on dead beech.

TROPIDERES Schönherr

16282 **T. bimaculatus** Oliv. Rochester (M&W); Bronx, Je (Joutel). On dead twigs (B&L).

16283 **T. rectus** Lec. "NY".

ALLANDRUS LeConte

16284 **A. bifasciatus** Lec. Rochester (M&W); Buffalo (Z&R); Ludlow (JCT); Washington Co, Jl (Lg). On linden (B&L).

PIEZOCORYNUS Schönherr

16288 **P. dispar** Gyll. Buffalo, in fungus on dead beech (B&L).

16290 **P. mixtus** Lec. Buffalo (Z&R); Mosholu, Jl (Sf). From base of maple trees (B&L).

16291 **P. moestus** Lec. Mosholu, Jl (Sf).

ANTHRIBUS Geoffroy

16293 **A. cornutus** Say. Taughannock Falls, Aug (Hamilton); L. George, Jl (Zab); **LI:** Flatbush, Aug (Zab). On locust (Felt); on woody fungi (B&L).

EUPARIUS Schönherr

(*Cratoparis* Schönherr)

16299 **E. marmoreus** Oliv. Streetroad, Je, *Bks* (NYS); Newport, May (NYS); Wells, Ap, *Cy* (NYS); Westport, Oct (NYS); Cranberry L., Je–Aug (H); Axton, Je (Houghton); Syracuse, on hickory (Blkm); Rochester (M&W); Olcott, May–Aug (Dt); Buffalo (Z&R); Pike (NYS); Westfield, May (Not); Ithaca, May–Aug (Dt); West Pt. (Robn); Bronx, Jl (Joutel); **SI,** Ap–Jl, on woody fungus, *Polyporus versicolor,* on oak (L&D); **LI:** Wyandanch (Sf). On fungi on maple and beech (Flet).

BRACHYTARSUS Schönherr [58]

16303 **B. alternatus** Say. Rochester (M&W); **SI,** Sep (L&D). Bred from fungus Cystopus.

16304 **B. sticticus** Boh. Potsdam, May (NYS); Mooers, Sep (Not); Cranberry L., Je 24 (H); Rochester (M&W); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ringwood, Howland I., May–Je (Dt); Shortsville (Lint); Ludlow, Sep (JCT); **SI,** Je, in smut of corn and wheat (L&D).

16305 **B. tomentosus** Say. Cranberry L., Je (H); Rochester (M&W); Ithaca, Aug; Windsor, Je (Not); Peekskill, Ludlow (JCT); West Pt. (Robn); Van Cort. Pk. (Sf); **SI,** Je, sometimes abundant on ragweed (L&D); **LI:** Bellport, Aug (Nic).

16307 **B. limbatus** Say. "NY" (Sf).

16308 **B. plumbeus** Lec. "NY", Aug.

ANTHRIBULUS LeConte

16315 **A. rotundatus** Lec. Bronxville, from gall of *Drastrophus bassetti* (AM); Van Cort. Pk., Aug (Sf); **SI** (L&D); **LI:** Bellport, Aug (Nic).

ARAEOCERUS Schönherr

16316 **A. fasciculatus** DeG. NYC, introduced from Cayenne (B&L).

CHORAGUS Kirby

16317 **C. sayi** Lec. "NY", on beech (Jour. N. Y. Ent. Soc., vol. 1, p. 88).

16318 **C. zimmermanni** Lec. **LI:** Wading R., Jl (Sf). In fungus-infested twigs (B&L).

[16320 *C. nitens* Lec. Mass. to D.C., on dead twigs (B&L).]

EUXENUS LeConte

16322 **E. punctatus** Lec. Canada to D.C., on twigs (B&L).

FAMILY BELIDAE

ITHYCERUS Schönherr

16324 **I. noveboracensis** Forst. THE NEW YORK WEEVIL. Newport, Je (NYS); Syracuse (Blkm); Buffalo (Z&R); Ithaca, Jl (NYS); West Pt. (Ds, Robn); Rockland Co, Je (Joutel); West Farms (Zab); Van Cort. Pk., May–Je (Nic); **SI,** May–Jl (L&D); **LI:** Jamaica (Nic); Bellport, May–Je (Nic); Yaphank, Wading R., Half Way Hollow Hills, May–Jl (Ds); Flatbush, Jl (Zab). On oak, hickory, beech (B&L); sometimes injurious to apple, pear, cherry, and plum orchards

[58] The larvae of Brachytarsus prey on Coccidae (Camb. Nat. Hist. Ins., p. 290).

FAMILY CURCULIONIDAE

SUBFAMILY RHINOMACERINAE

RHINOMACER Fabricius

16325 **R. pilosus** Lec. Karner, Ap (Felt); **LI:** Central Pk., Ap (Eng). On pine (B&L).

16326 **R. elongatus** Lec. Ringwood, Ithaca, May (Dt); Albany, Karner, Ap, Delmar, May (NYS); Broadalbin, Ap (NYS); **LI:** Pinelawn, Je (Eng).

16327 **R. pallipennis** Blatch. N.H. to Pa. (B&L).

SUBFAMILY RHYNCHITINAE

AULETES Schönherr

16331 **A. ater** Lec. Buffalo (Z&R); **SI,** on sweet fern and bayberry (L&D); **LI:** Yaphank, Pinelawn, Je (Ds).

16338 **A. albovestita** Blatch. Cranberry L., Je (H); Oswego, Jl–Aug (Pierce); Nassau, Salem, Aug (NYS); Peekskill, Sandy Hill (JCT); West Pt. (Robn); Dundee, Je (Hubbard&Schwarz); **LI:** Bellport, Aug (Nic).

EUGNAMPTUS Schönherr

16343 **E. collaris** Fab. Newport, May–Je (NYS); Buffalo (Rein); Albany, Karner, Je (NYS); West Pt. (Robn); Mosholu, Jl (NYS); Van Cort. Pk. (AM); **SI,** Je–Jl, on hickory (L&D); **LI:** Cold Sp. Harb., Jl (H).

16343a **E. collaris** var. **nigripes** Melsh. **SI,** Je–Jl, on hickory (L&D); **LI:** Smithtown, Aug (Ds); Riverhead, Aug (Ds); Cold Sp. Harb., Jl (H).

16347 **E. angustatus** Hbst. Buffalo (Z&R); Mosholu (Joutel); West Farms (Joutel); Bronxville (AM); **SI,** Je–Aug, on hickory leaves (L&D); **LI:** Hempstead (AM).

RHYNCHITES Herbst

16348 **R. bicolor** Fab. THE ROSE CURCULIO of the Transition zone (B&L). Rochester, Jl (AM); S. Byron, Je (NYS); Buffalo (Z&R); Ithaca, Je; Karner, Je, Troy, Jl (NYS); Peekskill, Jl (Joutel); West Pt. (Robn); Yonkers, Jl (NYS); Mosholu, Je (Joutel); Bronx, Je (Joutel); **SI,** Je, on roses, the larvae in the hips (L&D).

16351 **R. aeneus** Boh. Ft. Montgomery, Jl (B&L); Rockland Co, Aug, *Brownell* (CU).

16354 **R. hirtus** Fab. **SI,** Je–Jl, on blackjack oak (L&D); **LI:** Yaphank, Jl (Ds).

16359 **R. cyanellus** Lec. Chazy L., L. Clear, Je (NYS); Fulton Co, May, on willow leaves; N. Chatham, Je, on willow (Felt); Callicoon (AM).

16361 **R. aeratus** Say. **SI,** Jl, on oak (L&D).

SUBFAMILY ATTELABINAE

ATTELABUS Linnaeus [59]

16365 **A. analis** Ill. Buffalo (Z&R); Shokan (JCT); Poughkeepsie (Yg); West Pt. (Robn); **SI**, Jl, on oak (L&D); **LI**: Deep Pond, Wading R., May (Ds).

16365a **A. analis** var. **similis** Kby. Rochester (M&W); White L., Sep (AM); Rock City, Je (Ds).

16366 **A. nigripes** Lec. White L., Aug (Zab); West Pt. (Robn); **SI**, May–Aug, on *Rhus copallina* (L&D); **LI**: Yaphank, Jl, Pinelawn, Aug (Ds); Half Way Hollow Hills, Jl (Ds).

16367 **A. bipustulatus** Fab. Buffalo (Z&R); Albany (Felt); Sullivan Co (AM); West Pt. (Robn); **LI**: Yaphank, Pinelawn, Smithtown, Wading R., May–Aug (Ds). On oak (B&L).

16369 **A. rhois** Boh. Windsor, Je (Not); Mt. Whiteface, Jl (Ds); West Pt. (Robn); Van Cort. Pk. (AM).

SUBFAMILY PTEROCOLINAE

PTEROCOLUS Schönherr

16370 **P. ovatus** Fab. Buffalo (Z&R); Hastings, Jl (Joutel); Karner, Je (NYS); West Pt. (Robn); **SI**, Aug, on oak (L&D); **LI**: Yaphank, May, on oak (B&L); Wyandanch, Deep Pond, Wading R., May–Jl (Ds).

SUBFAMILY APIONINAE

APION Herbst

16373 **A. impeditum** Fall. Windsor, Je (Not); Peekskill, type locality (Fall).

16376 **A. impunctistriatum** Sm. Breeds in stems of Heterotheca and Ambrosia (B&L).

—— **A. bischoffi** Fall. **SI** (Fall).

16379 **A. atripes** Sm. Schoharie (Not).

16380 **A. finitimum** Fall. Mass. to D.C. (Fall).

16382 **A. melanarium** Gerst. Westfield, May (Not); **SI**, Je–Jl (L&D); **LI** (Fall).

16389 **A molestum** Fall. Orangeburg, May (Nic).

16390 **A. minutum** Sm. "NY" (JBSm).

16392 **A. pennsylvanicum** Boh. Windsor, Je (Not); Shokan, Ludlow, Je–Jl (JCT).

16396 **A. perminutum** Sm. Mass. to Fla. (Fall).

16397 **A. reclusum** Fall. N. J. to D. C. (Fall).

16422 **A. patruele** Sm. Lake Bluff, Sep (NYS); **LI**: Rosedale, in sifting in winter (Nic).

16423 **A. walshii** Sm. (*vicinum* Sm.). Newport, May–Je (NYS); Cranberry L., *Htly* (Buch); Axton, Je (Houghton); Mt. Seward, Je (Houghton); Clinton Hgts., Je (NYS); NYC (AM); **LI**: Rosedale, Je (Nic).

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[59] The larvae in this genus roll leaves into compact thimble-shaped masses, on Corylus, Je–Jl (Fitch); also on oak, sumac, etc. (Blatch&Lg).

16429 **A. turbulentum** Sm. Ithaca (Fall); Schoharie (Not); Peekskill (Fall). Lives in seeds of Meibomia (B&L).

16431 **A. griseum** Sm. Schoharie (Not); Peekskill (Fall); **SI,** Nov, in pods of *Phaseolus polystachyus* (L&D). On Lespedeza under name of *fraternum* (Chitt).

16439 **A. porcatum** Boh. Schoharie (Not).

16441 **A. rostrum** Say. Buffalo (Z&R); Ithaca (Chitt); Peekskill (B&L); **SI,** Je–Oct, on Baptisia (L&D).

16443 **A. nigrum** Hbst. Albany, Je (NYS); NYC (AM); **SI,** Jl, in seeds of *Robinia pseudacacia* (L&D); **LI:** Bellport, Je (Nic); Syosset, Aug (NYS).

16457 **A. segnipes** Say. **SI,** Sep, in pods of Tephrosia (L&D); **LI:** Bellport, Je (Nic).

16468 **A. decoloratum** Sm. Canandaigua, Oct (NYS). Breeds in seeds of Meibomia (B&L).

16469 **A. emaciipes** Fall. N. H. to Ill. (Fall).

16472 **A. carinatum** Sm. "NY" (Fall).

16473 **A. attenuatum** Sm. Canada to southern Cal. (Fall).

16474 **A. hibisci** Fall. "NY" (Lg). Lives in seeds of Hibiscus (Weiss).

16480 **A. parallelum** Sm. Mass. to D. C. (Fall).

16486 **A. puritanum** Fall. Buffalo (Fall); **SI,** Je, on Viburnum (L&D).

16488 **A. herculanum** Sm. Genesee Co, Je (Lg); Letchworth Pk., Jl (NYS); West Pt. (Robn); Catskills (Nic); Peekskill (B&L); **SI,** on witch-hazel (Bischoff).

16489 **A. molestus** Fall. Orangeburg, May (Nic).

PODAPION Riley

16490 **P. gallicola** Rly. Mass. to Cal. (Lg). On pine (B&L).

SUBFAMILY TACHYGONINAE

TACHYGONUS Schönherr

16492 **T. lecontei** Gyll. N. J. to Tex. (Lg).

16493 **T. spinipes** Csy. **LI:** Bellport, Je, beating scrub oak (Nic); Yaphank, on oak (B&L). *T. tardipes* of the Buffalo list is a western species.

SUBFAMILY OTIORHYNCHINAE

PHYXELIS Schönherr

16499 **P. rigidus** Say (*glomerosus* Boh.). Potsdam, Newport, Deer R., May (NYS); Gloversville, Aug (NYS); Albion, Sep (NYS); Lakeside, Orleans Co, Je, *Cy* (NYS); Buffalo (Z&R); Pike (NYS); Genesee Co, Je (Lg); Ithaca, Ap, *Bish* (Dt–NYS); Binghamton, Ap (JCT); Windsor, Je (Not); Albany, Sep (NYS); Poughkeepsie, May (NYS); West Pt. (Robn); Ft. Montgomery, Jl (Ds); Nyack, Je (Ds); Mosholu, Je (Joutel); Ramapo, May (Ds); Carmel, Aug (AM); **SI,** Jan–Aug (L&D); **LI:** Flatbush, Je (AM); Forest Pk., Je (NYS).

ANAMETIS Horn

16547 **A. granulata** Say. Buffalo (Z&R); Portage, May (B&L); Kenwood, Jl (NYS).

PANSCOPUS Schönherr

16576 **P. erinaceus** Say. Buffalo (Pierce); Washington Co, Aug (Sherm); **SI,** Jl (L&D); **LI:** Bellport, Aug, Wading R., May (Nic).

16578 **P. maculosus** Blatch. Washington Co (B&L); Ft. Montgomery, May (Ds).

TANYMECUS Germar

16596 **T. confertus** Gyll. (*canescens* Gyll.). Buffalo (Z&R); **SI,** Je–Jl, in stems of Ambrosia (L&D).

PANDELETEIUS Schönherr

16605 **P. hilaris** Hbst. Buffalo (Z&R); Letchworth Pk., Jl (NYS); Genesee Co (Lg); Ithaca, May, Aug (Dt); Albany, Karner, Je (NYS); Nassau L., May (NYS); Lansingburg, Canaan, Je (NYS); West Pt. (Robn); Ludlow, Sep (Lg); Ramapo, May (Lg); Mosholu (AM); **SI,** Je–Aug, abundant on oak (L&D); **LI:** Wading R., Amagansett (Ds).

POLYDRUSUS Germar

(*Cyphomimus* Horn)

16621 **P. americanus** Gyll. (*dorsalis* Horn). Newport, May (NYS); Genesee Co, Je (Lg); Buffalo (Z&R); Portage, May, on beech (B&L); Westfield, May (Not); Westview, Jl, *Cy* (NYS); Ithaca, May (Dt, H); Otsego (Pierce); Schoharie (Not); Delmar, May (NYS); Orangeburg, Ap, very abundant, flying on certain days in spring (Nic).

16622 **P. impressifrons** Gyll. THE LEAF WEEVIL. Introduced from Europe, and first found at Geneva and Lyons in 1906. Beetles feed on foliage of willow, poplar, birch, rose, apple, and pear, and are sometimes injurious in nursery plantings. Known only from N. Fair Haven (H); Lyons, Sodus; Castile, *Brad* (Flet); Waterloo, Geneva, Seneca Castle, Rochester, Rochester Jct., Honeoye Falls, Indian Falls, Oak Orchard, Albion, LeRoy, Batavia, and Portage.

SCYTHROPUS Schönherr

16626 **S. elegans** Couper. Wilmington, Je (NYS); Rochester, Je (AM); Forest Lawn, Jl (AM); Buffalo (Lg); Ithaca, Ap–Jl, on pine (Chitt); Font Grove, Albany Co, Je (NYS); Nassau, Je (NYS); Callicoon, Je (AM).

HORMORUS Horn

16635 **H. undulatus** Uhl. Newport, Je (NYS); Axton (Houghton); Cranberry L., Je (H); Genesee Co, Je (Ds); Ithaca, Je (B&L); Windsor, Je (Not); Albany, Je, Poughkeepsie, May (NYS); West Pt. (Robn); Van Cort. Pk. (Nic); **SI,** Je, Aug (L&D); **LI:** Jamaica (Nic); Flatbush, Je (B&L).

SCIAPHILUS Schönherr

16640 **S. muricatus** Fab. Syracuse, under decayed hickory twigs (Blkm).

STROPHOSOMA Billberg

16641 **S. coryli** Fab. **SI**, Mar (L&D); **LI** (B&L).

EPICAERUS Schönherr

16646 **E. imbricatus** Say. **LI**: Flatbush (B&L).

PANTOMORUS Schönherr

(*Aramigus* Horn)

16659 **P. fulleri** Horn. FULLER'S ROSE BEETLE. Severance, Je, *Bks* (NYS); Herkimer Co (NYS); Little Falls, Oct, on greenhouse carnations (B&L); Albany, Poughkeepsie (Lint); **SI** (L&D); **LI** (AM).

BARYNOTUS Germar

16671 **B. schönherri** Zett. "NY" (Fitch).

BARYPEITHES Jacquelin-Duval

16672 **B. pellucidus** Boh. Syracuse, May (H, Blkm); Rochester, Je (NYS); Kendall, May (NYS); Genesee Co, Je (Lg); Batavia, Je (B&L); Lakeside, Je, *Cy* (NYS); Letchworth Pk., Jl (NYS); Portage, Je (Ds); Geneva, Je (NYS); Ithaca, May, *Bks* (Dt); DeRuyter L., Jl (NYS); Albany, Voorheesville, Je, *Leon* (NYS); Van Cort. Pk. (AM); **SI** (div.); **LI**: Amityville, Astoria, May (Bt); Cold Sp. Harb., Je (Ds); Bellport, Je (Nic).

AGRAPHUS Say

16675 **A. bellicus** Say. **SI**: Tottenville, Je (NYS); **LI**: Rockaway, Babylon, Je–Sep (B&L).

BRACHYRHINUS Latreille

(*Otiorhynchus* Germar)

16677 **B. sulcatus** Fab. BLACK VINE WEEVIL. Buffalo, Feb (NYS); Westfield, Aug (NYS); Ithaca, Mar, Sep (Dt); Albany, Mar (NYS); Hudson, Aug (Lg); Oliverea, Oct (NYS); Middle Hope, Jl (CU Econ); Peekskill, Ap (Hubbard&Schwarz); Nyack, Sep (Lg); Van Cort. Pk. (AM); **SI**, Jl, Nov (L&D); **LI**: Greenport, Aug, Flushing, Jan–Dec (Ds); Westbury, larvae injurious to yew; Central Pk. (Southwick); Orient Pt., May (NYS). Larvae sometimes injurious to yew hedges.

16678 **B. ovatus** L. (*ligneus* Horn). STRAWBERRY CROWN-GIRDLER. Potsdam (NYS); Keene Val., Jl (NYS); Severance, Jl, *Bks*, Wells, Jl (NYS); New Russia, Ap (NYS); Mooers, Sep (Not); Newport, May (NYS); Lyons Falls, Jl (NYS); Long L. (Ds); Hastings (NYS); Clyde, Sep, *Bish* (NYS); Kendall, May (NYS); Niagara (Lg); Wyoming, May,

infesting house (Lint); Chautauqua (Lg); Castile, *Brad* (Flet); Ithaca, McLean, Ringwood, Je–Nov (Dt); Ilion (NYS); L. George (AM); Appalachin, May (NYS); Nassau, Mar (NYS); Karner, Aug (NYS); Millerton, May (NYS); Carmel, Aug (AM); Huguenot, Jl (Zab); West Pt. (Robn); Peekskill (NYS); Mosholu, Je (Lg); Van Cort. Pk. (AM); **SI**, Jl–Aug (L&D); **LI**: Moriches (NYS); Orient Pt., Sep (NYS). Often injurious to strawberries.

16679 **B. rugifrons** Gyll. Genesee Co, Je (Lg); Letchworth Pk., Jl (NYS); Portage, Ap–Aug (B&L); McLean, Mar, Aug–Sep (Dt); Westfield, May (Not); Ithaca, Ap–Aug (B&L); Enfield Glen, Aug (NYS); Hubbardsville, Sep, *Leon*, injuring strawberries (CU Econ, NYS); Woodland, Aug (NYS); Ulster Co, general (CU Econ). Larvae sometimes injurious to strawberries.

CERCOPEUS Schönherr

16692 **C. chrysorhoeus** Say. **SI** (AM).

CHAETECHUS Horn

16694 **C. setiger** Horn. Barnerville, Aug (NYS).

TRACHYPHLOEUS Germar

16697 **T. davisi** Blatch. **SI**, type locality, on seashore, Ap (Ds).

GEODERCES Horn

16708 **G. melanothrix** Kby. Wilmington Notch, Aug, *Cy* (NYS).

APHRASTUS Say

16721 **A. taeniatus** Gyll. Hastings, Jl (Lg); Albany, Je, Slingerlands, Jl (NYS); Karner, Jl (Felt); Stony Pt., Je (AM); Mosholu, Je (NYS); Van Cort. Pk. (AM); **SI** (L&D); **LI**: Flatbush (AM); Fishers I. (AM); Orient Pt., Je (NYS).

BRACHYSTYLUS Schönherr

16724 **B. acutus** Say. "NY" (Lg), on persimmon.

PHYLLOBIUS Germar

16726 **P. glaucus** Scop. "NY", Aug.

—— **P. oblongus** L. THE EUROPEAN SNOUT BEETLE. Found in 1923 in considerable numbers injuring elms at Rochester, this being the first record of its occurrence in this country (Leon).

SUBFAMILY CURCULIONINAE

SITONA Germar

16727 **S. flavescens** Marsh. Newport, May–Je (NYS); Saranac Inn, Aug, Gloversville, Mar (NYS); Sodus Pt., Aug (NYS); Buffalo (Z&R); Westfield, Jl (NYS); Castile, May, *Brad* (Flet); Penn Yan, May, *Cy*

(NYS); Ithaca, Jl (NYS); Juanita I., L. George, Sep, *Leon* (NYS); Voorheesville, Aug, *Leon* (NYS); Poughkeepsie, May (NYS); West Pt. (Robn); NYC, Je (Ds); **SI**, Je, Sep, on clover roots (L&D); **LI**: Riverhead, Sep, Jamaica, Je (NYS).

16728 **S. hispidulus** Fab. CLOVER-ROOT CURCULIO. Cranberry L., Jl (H); Westfield, May (Not); Syracuse, Ap–May (H); Conesus L., Aug (Ds); Ithaca, Spencer, Ringwood, McLean, Je–Nov (Dt); L. George, Jl (AM); Schoharie (Not); New Baltimore (AM); West Pt. (Robn); Nyack, Tomkins Cove (AM); **SI**, Ap–Dec, on clover roots (L&D); **LI**: Coney I., on beach (Linell); Flatbush (AM).

16738 **S. tibialis** Hbst. Newport (NYS); Buffalo (Z&R); Ithaca, Jl (NYS).

LEPIDOPHORUS Kirby

16752 **L. setiger** Ham. Letchworth Pk., Jl (NYS).

HYPERA Germar

16754 **H. punctata** Fab. CLOVER-LEAF WEEVIL. Mooers, Sep (Not); Cranberry L., Jl (H); Westfield, May (Not); White L. (AM); Forest Lawn (AM); Castile, Ap, *Brad* (Flet); Pike, May (NYS); Chautauqua (Lg); Canandaigua, Jl (NYS); Ithaca (Lg); McLean, Mar–Sep (Dt); Freeville, Aug, in beating spruce and heather; Albany, Jl, Karner, Aug, Delmar, May, Phoenicia, Aug (NYS); West Pt. (Robn); Big I. (AM); Nyack, Sep (Brownell); **SI**, Je–Sep, feeds on clover; **LI**: Long Beach (AM); Rockaway, Jl, Flatbush, Babylon, Fishers I. (AM). Thirty-eight more references (CU), four more (Ds).

PHYTONOMUS Schönherr

16755 **P. eximius** Lec. **LI**: Aqueduct Station, Brooklyn, May 16, 1925, on leaves of mullein, *Nic*, *Mason*, *Quirs* (Nic).

16757 **P. comptus** Say. Pulaski, Je (Ds); Buffalo (Z&R); West Pt., Ap (Robn); Ft. Montgomery, May–Jl (Ds); Ramapo, May–Jl (Ds); **SI**, Ap–May, feeds on Polygonum in wet places (L&D); **LI**: Flatbush, Jl (AM).

16764 **P. meles** Fab. CLOVER-HEAD WEEVIL. Franklinton, Je, *Leon* (NYS); Ithaca, Je (NYS); Windsor, Je (Not); Albany (CU); Schoharie (Not); New Baltimore (Felt); West Pt., Ap (Robn); Orangeburg, Je (Nic); Port Chester, Jl (NYS); White Plains (CU); Van Cort. Pk. (AM); **SI**, Je (L&D); **LI**: Brooklyn (Lg); Rockaway Beach, May (Ds); Rosedale, Bellport, Je (Nic); Yaphank, Half Way Hollow Hills, May, Jl (Ds).

16765 **P. nigrirostris** Fab. LESSER CLOVER-LEAF WEEVIL. Axton (Houghton); Newport, May–Je (NYS); Bolton, Aug (JCT); Syracuse, Ap, flying (H); Westfield, May (Not); Ithaca (Detwiler); Ringwood, Ap–Jl (Dt); Windsor, Je (Not); Schoharie (Not); Albany, Je, Karner, Je, Clinton Hgts., Mar (NYS); West Pt. (Robn); Huguenot (AM); Van Cort. Pk. (AM); **SI**, Ap–Je, feeds on clover (L&D); **LI**: Babylon, Flatbush (AM); Rockaway (Nic). Twenty-two more records (CU), five more (Ds).

LEPYRUS Germar

16767 **L. palustris** Scop. (*geminatus* Say). Cranberry L., Je–Jl, beaten from birch and willow (H); Genesee Co, Je (Lg); Batavia, Jl (B&L); Buffalo (Z&R).

LISTRONOTUS Jekel

16772 **L. obliquus** Lec. Barren I., Jl (AM).

16773 **L. sordidus** Gyll. Buffalo (Z&R); Van Cort. Pk. (AM); **SI,** Aug, on subaquatic plants (L&D).

16774 **L. tuberosus** Lec. Ithaca, Ap (B&L); Orangeburg, May (Nic).

16775 **L. squamiger** Say. Buffalo (Say).

16776 **L. callosus** Lec. "NY" (Lec).

16778 **L. inaequalipennis** Boh. Buffalo (Z&R); West Pt. (Robn); **SI,** May (L&D); **LI:** Rockaway Beach, Je (Shoe).

16779 **L. caudatus** Say. Buffalo (Z&R); Ithaca, Je (Lg); Albany, Sep (NYS); **LI:** Rosedale, Ap, Rockaway, Aug (Nic).

16783 **L. appendiculatus** Boh. N. Fair Haven, Aug (NYS); Buffalo (Z&R); Peekskill (Lg); Van Cort. Pk. (Nic); **SI,** May–Aug (Woodr).

16786 **L. frontalis** Lec. "NY" (Lec).

16790 **L. latiusculus** Boh. PARSLEY STALK-WEEVIL. Ithaca, Je (B&L); Charlotte (AM); Nyack, Je (Ds); **SI,** Jl, on Sagittaria (L&D); **LI:** Valley Stream, Astoria, Suffolk Co, Jl, infesting carrots and arrowhead (CU); Babylon (AM); Rockaway, Je (Nic).

HYPERODES Jekel

(*Macrops* Kirby)

16801 **H. solutus** Boh. Buffalo (Z&R); Ithaca, Jl (Lg); **SI,** Aug, on arrow arum (L&D).

16803 **H. indistinctus** Dietz. **SI,** Aug, on Sagittaria (Woodr); **LI:** Jamaica (Sirrine).

16819 **H. delumbis** Gyll. Buffalo (Z&R).

16821 **H. sparsus** Say. Axton (Houghton); Buffalo (Z&R); Monroe Co, May (H); Westfield, May (Not); Ithaca, Je (NYS); Windsor, Je (Not); New Baltimore (AM); Catskills (Nic); West Pt. (Robn); **LI:** Flatbush, May (AM); Jamaica (Nic).

16823 **H. rotundicollis** Dietz. Westfield, May (Not).

16824 **H. obscurellus** Dietz. Westfield, May (Not); Ithaca, Jan (Dt); **LI:** Brooklyn (B&L).

16826 **H. imbellis** Dietz. Ithaca, Aug (Chitt).

16835 **H. humilis** Gyll. Axton (Houghton); Batavia, May (B&L); Westfield, May (Not); West Pt. (Lg).

PISSODES Germar

16840 **P. similis** Hopk. Wallface Mt., Jl (Nic).

16845 **P. strobi** Peck. WHITE-PINE WEEVIL. Undoubtedly present wherever white pine grows in the State. Representative localities are: Wells, Je, Harrisville, Jan (NYS); Cranberry L., Jl (H); Genesee Co, Je; Buf-

falo (Z&R); Ithaca (Lg); Albany, May, Salem, Ap, N. Chatham, May, Broadalbin, Ap (NYS); Poughkeepsie, Je (NYS); Slide Mt., Jl (Lg); New Baltimore (Hopk); West Pt. (Robn); Kiamesha (Hopk); Rhinebeck, Oct (NYS); **SI**, Jl (L&D); **LI**: Central Pk. (Eng).

16846 **P. approximatus** Hopk. Wallface Mt., Jl (Nic); near NYC (Hopk). On pine (B&L).

16858 **P. nigrae** Hopk. Wallface Mt., Jl (Nic). On black spruce (B&L).

16866 **P. dubius** Rand. Big Moose, on spruce (Felt); Saranac Inn, Jan (NYS); Cranberry L., Je–Jl, common in dying balsam (H); Old Forge, Je (NYS).

16868 **P. affinis** Rand. Wells, Jl (NYS); Buffalo (Z&R); Genesee Co, Je (Lg); Ithaca, May, on white pine (B&L, Chitt); Bath-on-Hudson, Jl (Felt); Callicoon (AM); West Pt. (Robn).

PACHYLOBIUS LeConte

16872 **P. picivorus** Germ. (*stupidus* Boh.). Buffalo (Z&R); southern NY (Fitch); **LI**: Yaphank, May–Sep, on pine (B&L).

HYLOBIUS Germar

16873 **H. pales** Boh. THE PALES WEEVIL. Severance, Jl, Wells, Je–Jl, Sep, Saranac Inn, Je (NYS); Old Forge, Je (NYS); Buffalo (Z&R); Ithaca (Lg); Ringwood, Je–Jl (Dt); Karner, Oct (NYS); New Baltimore (AM); West Pt. (Robn); **SI**, Ap, Sep, on pine (L&D); **LI**: Central Pk. (Eng); May–Sep (Ds).

16874 **H. confusus** Kby. Axton (Houghton); Cranberry L., Je–Jl (H); Saranac Inn, Jl (NYS); Buffalo (Kby); Albany, Je (NYS).

HYPOMOLYX LeConte

16879 **H. piceus** DeG. (*pinicola* Couper). Windsor, Je (Not); Mt. Whiteface, Sep, Je (Lg); Wallface Mt., Jl, crawling in deep dark woods and under bark at high elevations only (Nic); Mt. Marcy, Oct (B&L); NYC, Je–Jl (B&L).

EUDOCIMINUS Leng

16880 **E. mannerheimi** Boh. "NY" (Chitt).

EUCLYPTUS Dietz

16883 **E. testaceus** Dietz. Buffalo, type locality (Dietz).

DORYTOMUS Germar

16893 **D. mucidus** Say. Buffalo (Z&R).

16894 **D. laticollis** Lec. Keene Val., Je (NYS); Cranberry L., Je (H); Buffalo (Z&R); Callicoon (AM); West Pt. (Robn); near NYC, on poplar **LI**: Rockaway Beach, wash-up, Je (B&L).

16897 **D. parvicollis** Csy. Ithaca, Jl, Oct, *Cy* (NYS); Karner, under loose bark of poplar, May (Felt); Pomona, Ap (NYS); **SI,** on willow and aspen (L&D).

16909 **D. indifferens** Csy. "NY" (B&L).

16910 **D. vagenotatus** Csy. Karner (Felt); Albany, Ap (NYS); **LI:** Long Beach, Je 7 (Nic).

16913 **D. fusciceps** Csy. Buffalo (Z&R); Callicoon (AM); West Pt. (Robn); Mosholu (AM); NYC, Mar–Nov, on pussy willow (B&L); **LI:** Central Pk., Ap (Eng).

16914 **D. brevicollis** Lec. Cranberry L., *Htly* (Buch); Ithaca, May (Dt).

GRYPIDIUS Schönherr

16919 **G. equiseti** Fab. Batavia, Je (B&L); Sport I., Je (B&L); Westfield, May (Not).

NOTARIS Germar

(*Erycus* Tournier)

16922 **N. puncticollis** Lec. Newport, May–Je (NYS); Batavia, May–Je, on arrow arum (B&L); Buffalo (Z&R); Portage, Mar–Je, on arrow arum (B&L); Montour Falls, Je (H); Westfield, May (Not); Ithaca, Aug, Nov (NYS); West Pt. (Robn); Albany, Ap (NYS); NYC, Mar–Ap (B&L); **LI:** Brooklyn, May (Ds); Long Beach, Aug (Lg); Rosedale, May–Je (Nic).

PACHYPHANES Dietz

(*Barytychius* Jekel, *Pachytychius* LeConte not Jekel)

16925 **P. discoideus** Lec. "NY", May–Jl (Chitt, Dietz).

16929 **P. lineolatus** Csy. "NY" (?).

16931 **P. amoenus** Say. Van Cort. Pk. (AM); **SI,** Aug–Sep (L&D).

SMICRONYX Schönherr

16972 **S. connivens** Csy. Mass. to Mo. (NY?).

16973 **S. tychioides** Lec. "NY" (Dietz).

16976 **S. sculpticollis** Csy. **LI:** Rosedale, May, sifting sphagnum in swamp (Nic), on dodder galls (B&L).

16991 **S. corniculatus** Fahr. **LI:** Jamaica (Nic).

BRACHYBAMUS Germar

17012 **B. electus** Germ. NYC, May–Aug, on palustral plants (B&L); **LI:** Wyandanch, Jl (Ds); Bellport, Je, in salt meadow (Nic).

ENDALUS Laporte

17014 **E. limatulus** Gyll. Buffalo (Z&R); Aurora, Jl (Zab); Stony Pt., Je (Ds); NYC, May–Sep (B&L); **SI,** May (L&D); **LI:** Bellport, Je–Jl, in sweeping salt meadow (Nic).

17019 **E. ovalis** Lec. Near NYC, Jl–Aug, on palustral plants (B&L); **SI,** Je (L&D).

TANYSPHYRUS Germar

17021 **T. lemnae** Fab. Old Forge, Je, Speculator, Jl (NYS); Ringwood, Je–Jl (Dt); Schoharie (Not); Albany, Je (NYS); Orangeburg, May (Nic); West Pt. (Robn); near NYC, on duckweed, May–Je (B&L); **SI,** May, on duckweed (L&D).

ONYCHYLIS LeConte

17022 **O. nigrirostris** Boh. Buffalo (Z&R); Ramapo (AM); NYC, May–Dec (B&L); **SI,** May, on arrowhead and pickerel weed (L&D).

ANCHODEMUS LeConte

17025 **A. angustus** Lec. Buffalo (Z&R).

LISSORHOPTRUS LeConte

17029 **L. simplex** Say (*apiculatus* Gyll.). THE RICE WATER WEEVIL. Near NYC, May–Jl (B&L); **SI,** May, on salt meadow, feeds on roots of palustral plants (L&D).

BAGOUS Germar

17030 **B. magister** Lec. West Pt. (Robn).
17036 **B. restrictus** Lec. Ithaca, May 5 (B&L).
17037 **B. americanus** Lec. Spencer L., Aug (Dt); L. George (Buchanan–US. Biol. Surv.).
17039 **B. mammillatus** Say. Windsor, Je (Not).
17042 **B. planatus** Lec. "NY", one of LeConte's type localities.
17043 **B. obliquus** Lec. Newport (NYS); Fulton Co (B&L).

PROCTORUS LeConte

17057 **P. decipiens** Lec. Cranberry L., Je, beaten from willow (H); Catskills (Nic–AM).

THYSANOCNEMIS LeConte

17058 **T. fraxini** Lec. Buffalo (Z&R); Ithaca, Je, in seeds of ash (B&L); West Pt., Je (B&L); **LI:** Rockaway, Aug (Nic); Long Beach, Aug (Lg).
17060 **T. bischoffi** Blatch. Batavia, Je (Kngt); commonly confused with *fraxini* (B&L).
17062 **T. ocularis** Csy. Menands, Jl (NYS).

PLOCETES LeConte

17068 **P. ulmi** Lec. Batavia, Je (B&L); West Pt., Je (B&L); **LI:** Rosedale, Je (Nic).

TYCHIUS Germar

17074 **T. picirostris** Fab. (*griseus* Sf.). THE CLOVER-SEED WEEVIL. Plattsburg, Jl (Ds); Newport, May–Je (NYS); Wells, Jl (NYS); Speculator (Felt); Mooers, Sep (Not); L. Champlain (Felt); Gouverneur

(Felt); Waterville (B&L); Oswego (Felt); Rochester, May (CU Econ); Batavia (B&L); West Pt., May (Not); Ithaca, Ap–Jl, in red clover (B&L, Detwiler); McLean (B&L); Windsor, Je (Not); Schoharie (Not); Corinth, May (NYS); Albany, May, Jl (NYS); New Baltimore, May (Felt); Orangeburg, May (Nic); Mosholu, Je (NYS).

OTIDOCEPHALUS Chevrolat [59a]

17118 **O. myrmex** Hbst. (*americanus* Chev.). Newport, May–Je (NYS); Rochester (M&W); Buffalo (Z&R); Nassau, Je (NYS); Poughkeepsie, Je (NYS); West Pt. (Robn); **SI**, Je–Jl, on oak (L&D); **LI:** Jamaica (Nic).

17121 **O. chevrolati** Horn. Cranberry L., *Htly* (Buch); Rochester (M&W); Buffalo (Z&R); Schoharie (Not); Nyack, Je–Jl (Ds); **SI** (L&D); **LI:** Yaphank, Je–Jl (Ds); Bellport, Jl (Nic).

17123 **O. scrobicollis** Boh. Buffalo (Z&R); West Pt. (Robn); **LI:** Yaphank, Jl (Ds, B&L).

17125 **O. laevicollis** Horn. Genesee Co, Je (Lg); Buffalo (Horn); Bear Mt., Jl (Nic); Ft. Montgomery, Jl (Ds); Nyack, Je; Rockland Co, Je (Joutel); **SI** (L&D).

MAGDALIS Germar

17129 **M. barbicornis** Latr. Newport, Jl (NYS); Lockport, Jl (NYS); Genesee Co, Je (Lg); Rensselaer, May (NYS); **SI**, Je, on elm (L&D); **LI** (Fall).

17133 **M. perforata** Horn. Karner, Je–Jl,, on pine (Felt); Lansingburg, Dec (NYS); **SI**, on pine (L&D); **LI:** Bellport, Je–Aug (Nic); Yaphank, Jl (Ds).

17136 **M. austera** Fall. Wallface Mt., Jl (Nic); **SI**, Jl, on pine (L&D). (*M. lecontei* records probably belong here.)

17136a **M. austera** var. **substriga** Fall. Wallface Mt., Jl (Nic); Peekskill (B&L); West Pt., on pine (Robn); Bear Mt., Jl (Nic); **LI:** Bellport, Je (Nic).

17141 **M. alutacea** Lec. Cranberry L., *Htly* (Buch); Ithaca, Jl (NYS); Karner, Je–Jl (Felt).

17146 **M. olyra** Hbst. Syracuse, on hickory (Blkm); Buffalo (Z&R); Ithaca, May (Lg); Ilion, Je, on hickory (Felt); **SI**, May, on hickory (Chitt); **LI:** Wading R., May (Nic).

17147 **M. pandura** Say. Newport, May–Je (NYS); Syracuse, on hickory (Blkm); Catskills (Nic); Poughkeepsie, Jl (NYS); Nyack, Je (Ds); **SI**, Je, on elm, oak, walnut, etc. (L&D).

17148 **M. inconspicua** Horn. Buffalo (Rein); West Pt., Je, on butternut (Robn); Westchester Co, Je (Lg); Congers, Jl (Lg).

17149 **M. salicis** Horn. Wells, May (NYS); Buffalo (Z&R); Ithaca, Jl (Ham).

17150 **M. barbita** Say. Newport, May–Je (NYS); Buffalo (Z&R); Ithaca, May (NYS); Albany, May–Je; Lansingburg, May (NYS); W. Nyack, Je.

17151 **M. armicollis** Say. Newport (NYS); Oswego, Je, *Leon* (NYS); Buffalo (Z&R); Castile, *Brad* (Flet); Ithaca, Je (NYS); West Pt. (Robn); Catskills (Nic); Westchester Co, Je (Lg).

17151a **M. armicollis** var. **pallida** Say. Westchester Co, Je (Lg).

[59a] Myrmex Sturm replaces Otidocephalus, *fide* H. S. Barber.

BALANINUS Germar

17155 **B. proboscideus** Fab. (*caryatrypes* Boh.). THE LARGE CHESTNUT WEEVIL. Glenmont, Sep (NYS); Albany, Oct, larva in chestnut (Fernow); Van Cort. Pk. (Nic); **SI,** nearly extinct, owing to death of trees (L&D); **LI:** Rockaway; Kings Pk., Sep (Ds).

17156 **B. caryae** Horn. THE HICKORY-NUT WEEVIL. Batavia, Sep (B&L); West Pt. (Robn); **SI** (L&D); **LI:** Brooklyn (Horn).

17157 **B. rectus** Say (*quercus* Horn). THE ACORN WEEVIL. Rochester (M&W); Buffalo (Z&R); Ithaca, Sep (NYS); Karner, Sep (NYS); West Pt. (Robn); **SI,** Aug–Sep (L&D); **LI:** Brooklyn (Okhurst); Rockaway Beach, Sep (Ds).

17158 **B. algonquinus** Csy. THE SMALLER CHESTNUT WEEVIL. Perry, Jl (H); West Pt. (Robn); possibly extinct on **SI** (L&D).

17159 **B. nasicus** Say. Rochester (M&W); Buffalo (Z&R); Ithaca, Ap (Dt); Karner, Je (Felt); West Pt. (Robn); Huguenot (AM); **SI,** Je–Aug, on oak (L&D); **LI:** Long Beach (AM); Rockaway, Je–Aug (Nic).

17160 **B. pardalis** Chitt. West Pt. (Robn).

17161 **B. confusor** Ham. Batavia, Jl (B&L); West Pt., Je (Ds); Van Cort. Pk., Je–Sep (AM); **LI:** Riverhead, Aug (Ds); Central Pk., Je, on *Quercus minor* (Ds); Babylon, Rockaway (AM).

17162 **B. baculi** Chitt. (*uniformis* auct. not Lec.). Buffalo (Lec); Ithaca, on *Quercus alba* (Chitt); Albany, Jl (NYS); Poughkeepsie, Jl (NYS); **SI,** Sep, on oak (L&D); **LI:** Rockaway Beach, Sep, Central Pk. (Ds).

17164 **B. obtusus** Blanch. Taughannock Gorge, Aug (Ham); **LI:** Rockaway, Aug (Nic).

17170 **B. strictus** Csy. Bear Mt., Jl, *Nic* (Chitt, with query).

—— **B. auctus** Csy. Buffalo, a single male (Csy).

TACHYPTERELLUS Fall and Cockerell

17186 **T. quadrigibbus** Say. THE APPLE CURCULIO. Genesee Co, Je (Lg); Buffalo (Z&R); Pike, Jl (NYS); Ithaca, May, Aug (Dt); McLean, May, *Bish* (NYS); West Pt. (Robn); **SI,** May–Je, on shadbush, thorn, and fruit trees (L&D); **LI:** Bellport, Je (Nic).

ANTHONOMUS Germar

17189 **A. scutellaris** Lec. THE PLUM GOUGER. Rochester (M&W); Karner, May (NYS); **SI,** May, on beach plum (L&D); **LI:** Yaphank, Je (Nic).

17194 **A. pusillus** Lec. "NY" (B&L); Peekskill (Sherm), as *A. hamiltoni* Dietz.

17202 **A. profundus** Lec. Cranberry L., Je (H); Ringwood, May (Dt); **SI,** Je, on *Crataegus Crus-galli* (L&D); **LI:** Massapequa, May, *Shoe* (Lg).

17203 **A. rubidus** Lec. Rochester (M&W); Buffalo (Z&R).

17204 **A. nebulosus** Lec. Batavia, May–Jl, found on flowers of Crataegus (B&L); Portage (B&L); Ithaca, Jl (H); Ringwood, May (Dt).

17210 **A. rufipennis** Lec. Windsor, Je (Not); **LI:** Rosedale, Je 3 (Nic).

17212 **A. haematopus** Boh. (*sycophanta* Walsh). Cranberry L., Aug, on willow (H); Newport, May–Je (NYS); Buffalo (Z&R); Letchworth Pk., Je (NYS); Rock City, Je, on laurel (Ds); Danby, Freeville, Ithaca, Mar, Je–Jl (Dt); Windsor, Je (Not); Scotia, Je (NYS); Remsen, Je (NYS); Valley Falls, May (NYS); Albany, Je (NYS); W. Albany (Lint); **LI:** Jamaica (Nic).

17213 **A. suturalis** Lec. Rochester (M&W); Buffalo (Z&R); Ithaca, May (Dt); West Pt. (Robn); Ramapo, Je (Ds); Orangeburg, May (Nic); West Farms (Lg); near NYC (B&L); **LI:** Yaphank, Je (Ds).

17214 **A. flavicornis** Boh. Near NYC (B&L).

17217 **A. corvulus** Lec. Axton (Houghton); Newport (NYS); Ithaca, May (Chitt); McLean, May (Dt); N. Chatham, Nassau, Je (NYS); near NYC (B&L); **SI,** on dogwood, Prunus, Viburnum (L&D).

17218 **A. subguttatus** Dietz. "NY" (Julich).

17219 **A. signatus** Say. THE STRAWBERRY WEEVIL. Axton (Houghton); Newport, May (NYS); Cranberry L., Je–Jl, beaten from Rubus (H); Mt. Whiteface, Sep (Lg); Montour Falls, Je (H); Ithaca, Ringwood, May–Je (Dt); Ilion, May (NYS); Trenton Falls, Je (NYS); S. Bethlehem, May (NYS); Poughkeepsie, Jl (NYS); Red Hook, Je, *Leon* (NYS); Mosholu, Oct (NYS); **SI,** injurious in 1884 and 1885 (Chitt); **LI:** Bellport, Je (Nic); Forest Pk., Je (NYS).

17221 **A. consimilis** Dietz. Windsor, Je (Not).

17224 **A. musculus** Say. Cranberry L., Je (H); Newport, May–Je (NYS); Buffalo (Z&R); Windsor, Je (Not); Albany, Je (NYS); Orangeburg, May, the most common species in sifting (Nic); **SI,** on strawberry (Rly); **LI:** Wyandanch, Ap (Nic).

17231 **A. interstitialis** Dietz. Wallface Mt., Jl (Nic).

17236 **A. nigrinus** Boh. **SI,** on horse nettle (L&D).

17245 **A. scutellatus** Gyll. Genesee Co, Je (Lg); Batavia, Je (B&L); Ithaca (Chitt); West Pt. (Robn); **SI,** Je–Aug (L&D).

17247 **A. orchestoides** Dietz. Newport, May–Je (NYS); L. Clear, Je (NYS); N. Chatham, Je (NYS); Poughkeepsie, Je (NYS).

17250 **A. ater** Lec. Hamburg, Aug (NYS).

17258 **A. rufipes** Lec. Batavia, Jl–Aug (B&L).

17259 **A. disjunctus** Lec. Charlotte, Je (AM); Peekskill (Sherm); **LI:** Montauk, Sep (Ds).

17267 **A. subfasciatus** Lec. "NY" (Lec).

17268 **A. robustulus** Lec. (*moleculus* Csy.). Portage, May–Jl (B&L); Windsor, Je (Not); Juanita I., L. George, Jl (NYS); Sandy Hill (B&L).

17269 **A. robinsoni** Blatch. Batavia, Je (B&L); West Pt., Ap (B&L).

17270 **A. ungularis** Lec. "NY" (Lg Cat.).

17273 **A. nubilus** Lec. Cranberry L., Je–Jl, beaten from Rubus (H); Wallface Mt., Jl (Nic); Woodworth's L., Jl (NYS); New Lebanon, Jl (Frost).

17290 **A. elongatus** Lec. Canastota (B&L); Peekskill (Lg); Orangeburg, May (Nic); Nyack, Je, Westchester Co (Lg).

PSEUDANTHONOMUS Dietz

17299 **P. crataegi** Walsh. Cranberry L., *Htly* (Buch); Wallface Mt., Jl (Nic); Buffalo (Z&R); Westfield, May (Not); L. George, Aug (Zab); Albany, Jl (NYS).

17300 **P. validus** Dietz. Ithaca (Chitt); **LI:** Bellport, Je (Nic).

17301 **P. hamamelidis** Pierce. Genesee Co, Je (Lg); Conesus L., Je, on witch-hazel (B&L); L. George, Aug (B&L).

17303 **P. incipiens** Dietz. Speculator, Jl, Newport, May–Je (NYS); Buffalo (Horn); Ithaca, May–Aug (Dt); Nassau, May (NYS); **SI,** on blueberry and laurel (Bischoff).

ELLESCHUS Stephens

17333 **E. bipunctatus** L. Cranberry L., *Htly* (Buch); Fourth L., Je (NYS).

17334 **E. scanicus** Payk. West Pt. (Robn); **LI:** Bellport, Je, in sweeping salt marsh (Nic).

17335 **E. ephippiatus** Say. Buffalo (Z&R); Nassau, May, on willow (Felt); **SI,** May–Jl, bred by Walsh from willow galls (L&D).

ORCHESTES Illiger

17337 **O. ephippiatus** Say. Cranberry L., Je–Aug, beaten from Salix (H); Newport, May (NYS); Herkimer Co, May–Je, on willow (Felt); Rochester (M&W); Batavia, May–Sep (B&L); Junius, Je (NYS); Buffalo (Z&R); Ithaca, May (NYS); Freeville, Je (Dt); Schoharie (Not); Rensselaer, May (NYS); Mosholu, Je (NYS); Van Cort. Pk. (Nic); **SI,** on *Salix fragilis* (L&D); **LI:** Jamaica (Nic).

17338 **O. salicis** L. Cranberry L., *Htly* (Buch); North Creek, Aug (NYS).

17339 **O. niger** Horn. Newport, Labrador Pond, Je (NYS); Wells, Jl (NYS); Cranberry L., Je, on blossoms of Viburnum (H); Herkimer Co, May–Je, on willow (Felt); Rochester (M&W); Woodworth's L., Jl (NYS); Batavia, May–Je (B&L); Buffalo (Z&R); Portage, May–Je (B&L); Ithaca, Freeville, McLean, May–Jl (Dt); Windsor, Je (Not); Rensselaer, May (NYS); Ramapo, Je (Ds); West Pt. (Robn); **SI,** Je (L&D); **LI:** Jamaica (Nic).

17343 **O. canus** Horn. Genesee Co, Je (Lg); Katonah (Sherm).

17345 **O. pallicornis** Say. APPLE FLEA-WEEVIL. Newport, Speculator, May–Je (NYS); Cranberry L., Je (H); Onondaga, May–Je, injuring apples, *Cy* (Flet); Wyoming, May, injuring apples, *Cy* (Flet); Ithaca, McLean, Ringwood, May (Dt); Windsor, Je (Not); Albany, May (NYS); Valley Falls, May (NYS); **LI:** Bellport, Je (Nic).

17347 **O. rufipes** Lec. Buffalo (Z&R); Batavia, Jl–Sep (B&L); Chautauqua (JCT); Ithaca, Jl, *Bks* (NYS).

ACALYPTUS Schönherr

17351 **A. carpini** Hbst. **LI:** Jamaica (Nic).

PRIONOMERUS Schönherr

17352 **P. calceatus** Say. Buffalo (Z&R); West Farms (Lg); **SI,** Je–Jl, larvae mining leaves of sassafras and tulip (L&D); **LI:** Jamaica, Je, Mineola, Jl (NYS).

PIAZORHINUS Schönherr

17353 **P. scutellaris** Say. Newport, May–Je (NYS); Cranberry L., Je, *Htly* (Buch, H); Axton (Houghton); Rochester (M&W); Genesee Co (Lg); Buffalo (Z&R); Bear Mt., Jl (Nic); Peekskill (Lg); Nassau, Je (NYS); Ft. Montgomery (Lg); **SI,** May–Je (L&D).

17354 **P. pictus** Lec. Buffalo (Z&R); **SI,** Nov, on oak (L&D); **LI:** Bellport, Aug (Nic).

GYMNETRON Schönherr

17359 **G. tetrum** Fab. Cranberry L., Je (H); Chazy L., Je (NYS); Newport, Aug (NYS); Rochester (M&W); Lakeside, Je, *Cy* (NYS); Buffalo (Z&R); Pike, Je (NYS); Montour Falls, Je (H); Westfield, Je (NYS); Castile, *Brad* (Flet); Penn Yan, Je (NYS); Schuylerville, Je (NYS); Ithaca, Jl (Ham); W. Albany, Karner, Nassau, Je (NYS); Wappingers Falls, Je (NYS); Ludlow (JCT); West Pt. (Robn); **SI,** on mullein, larvae in seed pods (L&D).

—— **G. tetrum** var. **subrotundatum** Reitter. Dunkirk (Pierce).

MIARUS Stephens

17360 **M. hispidulus** Lec. Carmel, Aug (AM).

CLEONUS Schönherr

17376 **C. plumbeus** Lec. Gloversville, Ap, Aug (NYS); Mosholu (Sf).

17389 **C. calandroides** Rand. **LI:** Wading R., breeds on stems of the sea rocket (B&L).

LIXUS Fabricius

17405 **L. rubellus** Rand. N. Fair Haven, Danby, McLean, May–Jl (Dt); Watervliet Reservoir, Aug, *Leon* (NYS).

17407 **L. lupinus** Blatch. Karner, May (NYS).

17414 **L. marginatus** Say. "NY".

17415 **L. musculus** Say. Ithaca (Lg); **SI,** May–Je, bred from *Polygonum amphibium* by Kellicott (L&D).

17418 **L. concavus** Say. THE RHUBARB CURCULIO. Syracuse, May, Schuyler Co, Je (H); Ithaca, Je (Lg); Albany, Kenwood, Je (NYS); Slingerlands, Jl (NYS); Coeymans (*SmEB*); Nassau, Je, Marlboro, May, Kingston, Mar (NYS); West Pt. (Robn); Florida, May (Ham); **SI,** May–Je, on stalks of dock and rye, Sep (L&D); **LI,** Jl (Lg); Orient, Jl (NYS).

—— **L. crassulus** Not. Schoharie (Not), type.

17439 **L. terminalis** Lec. West Farms (B&L); Bronxville (B&L); **LI** (Csy).

LAEMOSACCUS Schönherr

17443 **L. plagiatus** Fab. Rochester (M&W); Genesee Co, Je (L&D); Buffalo (Z&R); Ft. Montgomery, Jl (Ds); Bronx, *Nic* (Joutel); **SI,** Je–Jl, also hatched from oak gall, *Callirhytis cornigera,* in Mar (L&D); **LI:** Flatbush, Je–Jl (Zab); Half Way Hollow Hills, Jl (Ds).

BARIS Germar

—— **B. fultoni** Csy. West Pt. (Csy).

17447 **B. umbilicata** Lec. Huguenot, L. George (AM); West Pt. (Robn); **SI,** Jl–Aug (L&D); **LI:** (Csy); Brooklyn (Nic).

17454 **B. callida** Csy. (*strenua* Lec. of Buffalo list). Rochester (M&W); **SI,** Sep, in stems of Xanthium (L&D); **LI:** Rockaway, May (Ds).

17458 **B. tumescens** Lec. "NY" (Lec, B&L).

17462 **B. subaenea** Lec. Van Cort. Pk. (Nic); **LI:** Jamaica, Bellport (Nic).

17468 **B. interstitialis** Say. Schuylerville, Schenectady, Jl (NYS); W. Albany, Jl, Karner, Je (NYS); Kenwood, Jl (NYS); West Pt., May (B&L); Mosholu, Je (NYS).

17475 **B. dolosa** Csy. **LI** (Csy).

17489 **B. confinis** Lec. Ithaca, May–Je (Dt); **LI:** Long Beach (AM).

17497 ?**B. aerea** Boh. West Pt. (Robn).

17505 **B. scolopacea** Germ. Ithaca, Jl, *Ndm* (Flet–CU); **SI,** Jl (L&D); **LI:** Rockaway Beach, Je (Eng); Huntington (AM); Brooklyn, Jl (Nic). An introduced species.

ONYCHOBARIS LeConte

17539 **O. pectorosa** Lec. (*subtonsa* Lec.). West Pt. (Robn).

MADARELLUS Casey

17542 **M. undulatus** Say. Rochester (M&W); Forest Lawn, Sep (Zab); Buffalo (Z&R); Ithaca (B&L); Nassau, May (NYS); Catskills (Nic); West Pt. (Ds); Ludlow (JCT); Van Cort. Pk., Sep (NYS); **SI,** Aug–Sep, breeds in woodbine (L&D); **LI:** E. Greenbush, May (NYS); Yaphank, Oct, Greenport (Ds); Amagansett, Sep (Ds); Shelter I. (Ds).

—— **M. inconstans** Csy. "NY" (Csy).

AULOBARIS LeConte

17546 **A. pusilla** Lec. Mooers, Sep (Not); West Pt. (Robn).

AMPELOGLYPTER LeConte

17550 **A. ater** Lec. West Pt. (Robn).

PSEUDOBARIS LeConte

17561 **P. angusta** Lec. Batavia (B&L); West Pt. (Robn); near NYC (AM).

17562 **P. nigrina** Say. Newport, May–Je (NYS); Johnstown, Sep (NYS); Buffalo (Z&R); Voorheesville, Aug (NYS); Poughkeepsie, May (NYS); West Pt. (Robn); Mosholu, Oct (NYS); **SI,** Sep (L&D).

TRICHOBARIS LeConte

17566 **T. trinotata** Say. THE POTATO STALK-BORER. **SI,** Aug, in stem of Solanum (L&D).

GERAEUS Pascoe

(*Centrinus* auct.)

17580 **G. picumnus** Hbst. Nassau, Aug (NYS); West Pt. (Robn); Ludlow (JCT); Van Cort. Pk. (AM); **SI,** Je, Sep, in stems of grasses (L&D); **LI:** Forest Pk., Je (NYS).

17591 **G. penicellus** Hbst. Mosholu, Sep (NYS).

ODONTOCORYNUS Schönherr

—— **O. fultoni** Csy. "NY" (Csy).
—— **O. semiruber** Csy. "NY" (Csy).
17597 **O. scutellum-album** Say. Newport, May–Je (NYS); Rochester (M&W); Buffalo (Z&R); Point Breeze, Je (NYS); Schenectady, Jl, Karner, Aug, Albany, Jl, Poughkeepsie, Je (NYS); Catskills, Jl (Blkm); Peekskill (Sherm); Bolton (JCT); West Pt. (Robn); Van Cort. Pk., Aug (NYS); **SI,** Je, Aug (L&D).
—— **O. subabruptus** Csy. **LI** (Csy).
—— **O. amputatus** Csy. "NY" (Csy).
—— **O. parvus** Csy. "NY" (Csy).
17599 **O. salebrosus** Csy. Buffalo (Csy); **LI:** Cold Sp. Harb., Je (H).

CENTRINOPUS Casey

17602 **C. alternatus** Csy. Castile, *Brad* (Flet).

NICENTRUS Casey

17608 **N. lecontei** Champ. (*lineicollis* Csy.). Ithaca (Chitt).
17609 **N. lineicollis** Boh. Ithaca, Jl (Dt); Karner, Je (NYS).

CENTRINITES Casey

17616 **C. strigicollis** Csy. Ithaca, Je (H).

LIMNOBARIS Bedel

—— **L. fultonica** Csy. "NY" (Buch, Csy).
17634 **L. confusa** Boh. "NY" (Csy).
17637 **L. confinis** Lec. "NY" (B&L).
17646 **L. rectirostris** Lec. Schoharie (Not); **SI,** Je, on sedges (L&D).
17648 **L. calva** Lec. **LI** (B&L).

IDIOSTETHUS Casey

17651 **I. tubulatus** Say. **LI:** Jamaica (Nic).
—— **I. strigosicollis** Csy. "NY" (Csy.)

STETHOBARIS LeConte

17659 **S. ovata** Lec. Ithaca, Jl (NYS).

ZAGLYPTUS LeConte

17662 **Z. sulcatus** Lec. **SI,** Jl (L&D).

DIORYMERELLUS Champion

17694 **D. laevimargo** Champ. Has been introduced into greenhouses on orchids in one or two localities in the State.

GELUS Casey

17699 **G. oculatus** Say. Speculator, Je (NYS); Genesee Co, Je (AM); Buffalo (Z&R); McLean, May (Dt); Nassau, May (NYS); L. George, Aug (AM); Big Ind. Val., Je, *Pears* (NYS); Catskills (Nic); **LI:** Jamaica (Nic).

17701 **G. subfasciatus** Lec. "NY" (Guex).

CYLINDROCOPTURUS Heller

17712 **C. binotatus** Lec. Ithaca, Aug (Dt); near NYC (B&L).

17719 **C. quercus** Say. Rochester (M&W); Ludlow (JCT); Bronx (Joutel); near NYC (B&L); **SI**, Je–Aug, on oak (L&D).

17721 **C. longulus** Lec. **SI**, Jl, on oak (L&D).

EULECHRIOPS Faust

17723 **E. minutus** Lec. Karner, Je; Mosholu, Aug (NYS); **LI:** Forest Pk., Je (NYS).

ACOPTUS LeConte

17726 **A. suturalis** Lec. Newport, May–Je, Wells, Jl (NYS); Cranberry L. (H); Rochester (M&W); Wilmington, Jl (Lg); Genesee Co, Je (Lg); Buffalo (Z&R); Westfield, May (Not); Ithaca, Ringwood, May–Je (Dt); Big Ind. Val., Jl, *Pears* (NYS); West Pt. (Robn); Orangeburg, Ap (Nic); Van Cort. Pk. (Nic); near NYC (B&L); **SI**, May–Jl, on beech, hop hornbeam, and hickory (L&D).

PSOMUS Casey

17727 **P. armatus** Dietz (*politus* Csy.). Schoharie (Not).

MONONYCHUS Germar

17728 **M. vulpeculus** Fab. Rochester (M&W); Point Breeze, Je (NYS); Buffalo (Z&R); Castile, May, *Brad* (Flet); Pike (NYS); Poughkeepsie, May (NYS); Peekskill (Lg); West Pt. (Robn); Bronx Pk (AM); **SI**, May–Je, breeds in seed pods of Iris (L&D); **LI**, Je (Lg).

CRAPONIUS LeConte

17729 **C. inaequalis** Say. GRAPE-SEED CURCULIO. West Pt. (Robn); near NYC (B&L); **SI**, Je (B&L).

CNEMOGONUS LeConte

17730 **C. lecontei** Dietz. Mt. Whiteface, Jl (B&L).

ACANTHOSCELIS Dietz

17735 **A. curtus** Say. L. Placid, Aug (NYS); Newport, May–Je (NYS); Lakeside, Aug, *Cy* (NYS); Buffalo (Z&R); Pike, Je (NYS); near NYC, on Polygonum in swamps, May–Jl (B&L).

17736 **A. acephalus** Say. Newport, Je (NYS); Rochester (M&W); Buffalo (Z&R); West Pt., Je (Ds); S. Dover, Jl (Lg); near NYC, May–Sep (B&L); **SI,** on evening primrose (L&D); **LI:** Rockaway, Coney I. (Lg).

AULEUTES Dietz

17743 **A. asper** Lec. Windsor, Je (Not).

17744 **A. tenuipes** Lec. West Pt., May (Robn); **LI:** Bellport, Je (Nic).

17745 **A. ater** Dietz. Bronx (Joutel); **SI,** Jl (L&D).

17751 **A. cruralis** Lec. (related to European *epilobii* Payk.). Wallface Mt., Jl (Nic); Cranberry L. (H).

17753 **A. nebulosus** Lec. Axton (Houghton); Newport, Speculator, Aug (NYS); Remsen, Je (NYS); Genesee Co, Je (Lg); West Pt. (Robn); Mosholu, Sep (AM); **SI,** Jl (L&D).

HYPOCOELIODES Faust

(*Orchestomerus* Dietz)

17755 **H. ulkei** Dietz. NY is type locality.

ACALLODES LeConte

17757 **A. ventricosus** Lec. Orangeburg, May (Nic); near NYC, May–Jl (B&L).

17758 **A. lysimachiae** Fall. **LI:** Rosedale, Ap, Je (Nic).

COELIODES Schönherr

17760 **C. flavicaudis** Boh. (*apicalis* Dietz). Newport, May–Je, Johnstown, Sep (NYS); Ithaca (Lg); Schoharie (Not); Nassau, May (CU).

CEUTORHYNCHUS Germar

17762 **C. rapae** Gyll. (*affluentus* Dietz). CABBAGE CURCULIO. Newport (NYS); Rochester (M&W); Buffalo (Z&R); Ithaca (Lg); Albany, Je (NYS); Albany, Je (NYS); Ludlow (Lg); West Farms (Lg); **SI,** on cabbage seed-stalks, hedge mustard, peppergrass, etc. (L&D).

17766 **C. quadridens** Panz. (*seriesetosus* Dietz). CABBAGE SEED-STALK WEEVIL. Introduced. Peekskill (AM); **LI:** Cutchogue, bred from seed-stalks of kale (Sirrine); fairly common and often rather injurious in the cabbage-seed-growing sections about Riverhead and Mattituck.

17767 **C. marginatus** Payk. Cranberry L. (H); Onondaga Co, May–Je, on herbage (H); Wallface, Jl (Nic); Genesee Co, Je (Lg); Schuyler Co, May–Je (H); Ithaca, Mar–Jl (B&L); Ringwood, McLean, Jan, May–Je (Dt); Catskills, Ap (Flet); Bear Mt., Jl (Nic).

17781 **C. sulcipennis** Lec. **SI** (L&D).

17783 **C. cyanipennis** Germ. Johnstown (B&L); Portage, May–Jl, attacking seeds of cruciferous plants (B&L); McLean, May, Je (Flet); Ithaca (div.); Ringwood, May (Dt); Windsor, Je (Not); Sport I. (B&L).

17784 **C. bolteri** Dietz (*erysimi* auct. nec Fab.). Buffalo (Z&R); Ithaca, May (B&L).

17791 **C. omissus** Fall. Cranberry L., *Htly* (Buch).

17797 **C. neglectus** Blatch. Gloversville, Je (NYS); Batavia, Je–Jl (B&L); **SI,** Je–Jl, on Polygonum (L&D).

17812 **C. semirufus** Lec. Newport, May (NYS); Buffalo (Dietz); Batavia (B&L); Windsor, Je (Not); Portage, May (B&L); Poughkeepsie, May (NYS); Suffern (AM).

17817 **C. septentrionalis** Gyll. Newport, May–Je (NYS); Rochester (M&W); Nassau, Poughkeepsie, May (NYS); West Pt. (Robn); Orangeburg, May (Nic).

17818 **C. puberulus** Lec. Newport, May (NYS); Clayville, Je, *Leon* (NYS); Schoharie (Not); Nassau, Poughkeepsie, May (NYS); West Pt. (Robn); Orangeburg, May (Nic).

17820 **C. zimmermanni** Gyll. West Pt. (Robn); **LI:** Riverhead, Ap (NYS).

—— **C. punctiger** Sahl. Westfield, May (Not); Windsor, Je (Not); Schoharie (Not).

DIETZELLA Champion

(*Coelogaster* Schönherr)

17822 **D. zimmermanni** Gyll. W. Hebron (Lg); Peekskill, Je (Sherm); Bronx, Je (Joutel); near NYC (AM); **LI:** Flatbush, Je–Jl (Dietz).

PERIGASTER Dietz

17824 **P. cretura** Hbst. **SI,** Je–Jl, on Ludwigia (L&D); **LI:** Rockaway Beach, Je–Jl, Flatbush (B&L).

17825 **P. obscurus** Lec. Ithaca, Je–Sep (Dt).

PELENOMUS Thomson

17828 **P. sulcicollis** Fahr. Monroe Co, May (H); Ithaca, May, McLean, Jl, E. Schenectady, Jl (NYS); Windsor, Je (Not); Poughkeepsie, Aug (NYS); Shandaken, Je, *Cy* (NYS); Orangeburg (Nic); Westchester Co, May (Lg); Van Cort. Pk. (AM); **SI,** Ap, Jl, on Polygonum (L&D); **LI:** Jamaica (Nic); Rosedale, Je (Nic).

17831 **P. griseus** Blatch. Westfield, May (Not).

17832 **P. squamosus** Lec. Rochester (M&W); Ithaca (Lg); **LI:** Rockaway, May (Ds).

RHINONCUS Schönherr

17841 **R. pericarpius** Fab. Ithaca, Je (NYS); Van Cort. Pk. (Nic); **SI,** Je, on Saponaria (L&D).

17842 **R. pyrrhopus** Boh. Axton (Houghton); Speculator, Je, Newport, May, Wells, Jl, Old Forge, Jl (NYS); Mt. Whiteface (Lg); Wallface Mt., Jl (Nic); Syracuse (H); Cranberry L. (H); Buffalo (Z&R); Pike, Je (NYS); Ithaca, Jl (Lg); McLean, May–Aug (Dt); Windsor, Je (Not); Schoharie (Not); Albany, May, Karner, Jl, Phoenicia, Aug, Corinth, Je, Cooperstown, May (NYS); Callicoon (AM); W. Hebron (Lg); Rockland Co (Lg); Ramapo (Ds); Ludlow (Lg); **SI,** Je–Jl, common on Rumex (L&D); **LI:** Rockaway, Jl, Sep (Ds); Yaphank (Ds); Aqueduct, Oct (Ds).

17843 **R. longulus** Lec. Ithaca, Je (B&L); Van Cort. Pk. (Nic).

AMALUS Schönherr

—— **A. haemorrhous** Hbst. Syracuse, *H* (L.L.Buchanan). European; this is the first U. S. record.

PHYRDENUS LeConte

17848 **P. divergens** Germ. (*undatus* Lec.). "NY" (Csy).

CONOTRACHELUS Schönherr

17851 **C. nenuphar** Hbst. PLUM CURCULIO. Widely distributed and abundant in the State. Newport, Je (NYS); Onondaga Co, flying (H); E. Palmyra (Lint); Rochester (M&W); Monroe Co (Lint); Genesee Co, Je (Lg); Buffalo (Z&R); Pike (NYS); Westfield, Je (NYS); Castile, *Brad* (Flet); Penn Yan, Je (NYS); Schuyler Co, flying (H); Seneca Co (Felt); Ithaca, Ringwood, May–Aug (Dt); Enfield Falls, on wild cherry (CU); Petersburg (Lint); New Baltimore, Je (AM); Orange Co (Lint); **SI**, May–Aug; **LI:** Setauket (Felt). Breeds in plum, peach, cherry, etc., often causing great loss (L&D).

17852 **C. juglandis** Lec. WALNUT CURCULIO. Newport, Je (Felt); Rochester (M&W); Genesee Co, Je (Lg); Buffalo (Z&R); Cattaraugus Co, Jl (Ds); Ithaca, Aug (Dt); Phoenicia, Aug (NYS); Poughkeepsie (Felt); West Pt., on walnut and butternut (Robn); Ft. Montgomery, May (Lg); Van Cort. Pk. (Nic); **LI:** Jamaica (Nic).

17856 **C. affinis** Boh. Albany, Jl (CU).

17858 **C. seniculus** Lec. Poughkeepsie, May–Je, on hickory (Felt); Mosholu, Oct (NYS).

17859 **C. elegans** Say. Rochester (M&W); Buffalo (Z&R); Ithaca, Ringwood, May–Je (Dt); W. Hebron (Lg); West Pt. (Robn); Orangeburg, Ap (Nic); West Farms (Lg); Bronx, Je (Lg); **SI**, Je, on pignut hickory (L&D); **LI:** Wading R., May (Nic); Bellport, Aug (Nic).

17866 **C. crataegi** Walsh. QUINCE CURCULIO. A common pest on quinces and pears wherever they are grown in the State.

17872 **C. naso** Lec. **SI**, Je–Jl, on Crataegus (Ham); **LI:** Long Beach, Je (B&L).

17877 **C. posticatus** Boh. Rochester (M&W); Buffalo (Z&R); West Pt. (Robn); **SI**, Je–Jl, on Crataegus (Ham); **LI:** Rockaway (Ds, Lg); Long Beach (Ds); Yaphank (Ds); Bellport (Nic); Orient Pt., May–Jl (Ds).

17882 **C. pusillus** Lec. **LI:** Bellport, Jl–Aug, on oak (Nic).

17884 **C. geminatus** Dej. Rochester (M&W); Genesee Co, Je (Lg); **SI**, Jl (L&D); **LI:** Brooklyn, Jl (Shoe).

17886 **C. infector** Boh. "NY" (Lec).

17887 **C. cribricollis** Say. "NY" (Lec).

17890 **C. anaglypticus** Say. Adirondacks (Yg); Rochester (M&W); Buffalo (Z&R); Cattaraugus Co, Jl (Ds); Ithaca, Aug (Dt); Freeville, Aug (NYS); Enfield, May (NYS); Nassau, Jl (NYS); Big Ind. Val., Jl (NYS); Poughkeepsie, Je, on slippery elm (Felt); West Pt. (Robn); Ramapo, May (Ds); **SI**, Je, Aug, breeds in hickory (Say).

17893 **C. fissunguis** Lec. Pine I. (Ds); Ramapo, Je (Ds); **SI**, in seed pods of swamp rose mallow (L&D); **LI**, Mar (Eng).

RYSSEMATUS (Chevrolat) Schönherr

17899 **R. lineaticollis** Say. Rochester (M&W); Buffalo (Z&R); Ilion, May (NYS); Schuyler Co, Je (H); Lansingburg, Ap–May (CU); Kinderhook, Aug (NYS); West Pt. (Robn); Huguenot, Jl (AM); Ft. Montgomery, Jl (Ds); **SI,** larva breeds in milkweed (L&D); **LI:** Jamaica, *Wolf* (NYS).

17900 **R. annectens** Csy. (*R. palmacollis* of Buffalo and NY lists may be this species.)

CHALCODERMUS Schönherr

17911 **C. collaris** Horn. Rochester (M&W).

TYLODERMA Say

(*Analcis* Horn)

17919 **T. foveolata** Say. Rochester (M&W); Williamsville, Je (NYS); Buffalo (Z&R); Ithaca, Jl (Dt); Windsor, Je (Not); Karner, May, Sep (NYS); Clinton Hgts., Je, Nassau, May (NYS); West Pt. (Robn); Rockland Co, Je (Lg); White Plains, Jl (Lg); **SI,** Je, breeds in stems of evening primrose (L&D); **LI:** Syosset, Jl (NYS); Rosedale (Nic); Bellport, Je (Nic).

17924 **T. fragariae** Rly. STRAWBERRY CROWN BORER. **SI** (L&D).

17928 **T. aerea** Say. Axton, Je (CU); Newport (NYS); Buffalo (Z&R); Pike (CU); Spring Lake, Je (H); West Pt. (Robn); White Plains, Jl (Lg).

17928a **T. aerea** var. **nigra** Csy. Westfield, May (Not); Ithaca, Jl (Dt); Windsor, Je (Not); Gloversville, Nov, Pike, Nassau (NYS).

17929 **T. punctata** Csy. Peekskill, Nyack, Yonkers (B&L).

APTEROMECHUS Faust

17968 **A. ferratus** Say. Ithaca, Jl (Dt); Poughkeepsie, Je (NYS); Bronx, Je (Joutel); **SI,** Je (L&D); **LI:** Flatbush (AM).

CRYPTORHYNCHUS Illiger

17970 **C. parochus** Hbst. Newport, May (NYS); Buffalo (Z&R); Ithaca, May, Aug–Sep (Dt); Albany, Sep, Nassau, Ap, Poughkeepsie, May (NYS); Ft. Montgomery, May (Lg); Ramapo, May, Mosholu (Lg).

17971 **C. bisignatus** Say. Cranberry L., Aug (H); Buffalo (Z&R); Ramapo, Je (Ds); Bronx, Je (Joutel); **SI,** Je–Jl (L&D); **LI:** Babylon, Je (AM); Jamaica (Nic).

17972 **C. pumilus** Boh. West Pt. (Robn); Ft. Montgomery, May (Lg); **SI,** Jl (Lg); **LI:** Glendale, Aug (Lg).

17973 **C. fuscatus** Lec. Genesee Co, Je (Lg); Buffalo (Z&R).

17974 **C. lapathi** L. POPLAR AND WILLOW BORER. Wilmington, Je (NYS); Cranberry L. (H); Newark, Jl (NYS); Honeoye Falls; Rochester (M&W); Batavia (B&L); Buffalo, Aug (Rein); Pike, Sep, N. Tonawanda, Jl (NYS); Ithaca (B&L); McLean, May (Lg); Windsor, Je (Not); Schoharie (Not); Albany, Jl, Phoenicia, Aug, Milton, May,

Mosholu, Aug (NYS); Catskills, Jl (Nic); Van Cort. Pk. (Bt); Williams Bridge, 1882 (Julich); **SI**, Jl, Sep (L&D); **LI**: Glendale, Aug (Lg).

17975 **C. obliquus** Say. Buffalo (Z&R); **LI**: Yaphank, Sep (Ds).

17980 **C. obtentus** Hbst. Near NYC (Joutel, Julich); **LI**: Babylon (AM).

17981 **C. fallax** Lec. Syracuse (Blkm); Hastings, Je (Joutel); Buffalo (Z&R); Ithaca, Jl (NYS); West Pt. (Robn); **SI**, bred from hickory (L&D); **LI**: Long Beach (AM).

17986 **C. tristis** Lec. Mosholu, Je (NYS); **SI**, Je–Jl, on leaves of scarlet oak (L&D); **LI**: Jamaica (Nic).

SUBFAMILY COSSONINAE

ACAMPTUS LeConte

18006 **A. rigidus** Lec. Buffalo (Z&R).

DRYOPHTHORUS Schönherr

18013 **D. americanus** Bedel. Newport (NYS); Gloversville, Ap (NYS); Lakeside, Je, *Cy* (NYS); Rochester (M&W); Buffalo (Z&R); Cheektowaga (Zimm); Genesee Co, Je (Lg); Ithaca, Danby, Ap–May, Jl (Dt); Schoharie (Not); Albany, May, Delmar, Mar, Poughkeepsie, Jl (NYS); Catskills, Ap, Sep (Lg); West Pt. (Robn); Peekskill (Lg); White Plains, Mar (Lg); Bronxville (B&L); Ramapo Mts. (B&L); Van Cort. Pk. (B&L); **SI** (L&D); **LI**: Bellport, common under pine bark, Mar–Sep (Nic); Flatbush (B&L); Mineola, Jl (NYS).

HIMATINUM Cockerell

18016 **H. errans** Lec. Rochester (M&W).

CARPHONOTUS Casey

18018 **C. testaceus** Csy. Cranberry L., Jl, on *Picea rubens* (H).

COSSONUS Clairville

18020 **C. platalea** Say. Newport, Sep–Oct, on butternut (Felt); Buffalo (Z&R); Westfield, May (Not); Castile, *Brad* (Flet); Ithaca, Je (Dt); West Pt., May (Robn); Ludlow, Jl (JCT); Ramapo (AM).

18031 **C. impressifrons** Boh. Johnstown, Aug (NYS); Buffalo (Z&R), as *concinnus* Boh.; Bronxville, Jl (B&L).

18035 **C. corticola** Say. Rochester (M&W); Buffalo (Z&R); Ithaca (Lg); West Pt. (B&L); Mosholu, Jl (NYS); Van Cort. Pk. (B&L); **SI**, Ap, Aug (L&D); **LI**: Bellport, Jl–Aug (Nic); Cold Sp. Harb., Je (H).

ALLOMIMUS LeConte

18039 **A. dubius** Horn. Westfield, May (Not); Crusoe L., May (NYS).

MESITES Schönherr

18044 **M. subcylindricus** Horn. **LI:** Flatbush, from a Dutch dictionary (Zab); Bellport, Jl, sometimes in great numbers in logs washed up by the ocean (Nic).

PHLOEOPHAGUS Schönherr

18047 **P. apionides** Horn. Newport (NYS); Catskills (Nic).

18049 **P. minor** Horn. Buffalo (B&L).

18050 **P. spadix** Hbst. Introduced. **LI:** Rockaway Beach, Je, in water-soaked pine driftwood (Julich).

TOMOLIPS Wollaston

18051 **T. quercicola** Boh. "NY" (AM).

PENTARTHRINUS Casey

18056 **P. parvicollis** Csy. NYC (AM). **LI:** Flatbush, May, from apple wood (Zab).

HEXARTHRUM Wollaston

18060 **H. ulkei** Horn. Rochester (M&W); NYC, Dec, on white pine (Joutel).

RHYNCOLUS Germar

18070 **R. brunneus** Mann. Cranberry L., Je (H); L. Clear, Je–Jl, on pine (Yg); Ithaca, Ap (B&L); Catskills (Nic); Normanskill, Ap (NYS).

STENOSCELIS Wollaston

18073 **S. brevis** Woll. Newport, May, Severance, Aug, *Bks* (NYS); Olcott, Jl–Oct (Dt); Genesee Co, Je (Lg); Buffalo (Z&R); Ithaca, Jl–Oct (Dt); Schoharie (Not); E. Schodack, Ap (NYS); Catskills (Nic); West Pt. (Robn); Warwick, Jl (NYS); Poughkeepsie, Je (NYS); **SI,** Je (L&D); **LI:** Flatbush, Oct–Jl, apple (Zab).

SUBFAMILY CALENDRINAE

RHODOBAENUS LeConte

18087 **R. tredecimpunctatus** Ill. Mosholu, Je, Bronxville, Aug (Ds); **SI,** May–Oct (L&D).

SPHENOPHORUS Schönherr [60]

18101 **S. inaequalis** Say. Ithaca, Je (Dt); Van Cort. Pk. (B&L); **SI,** Aug, etc. (L&D); **LI:** Brooklyn, Ap (Shoe); Bellport (Nic); Rockaway, Je–Jl (Nic); Orient Pt., May (NYS); Aqueduct, Sep (Liebeck).

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[60] A. F. Satterthwait calls attention to the fact that Pierce has shown the priority of Calendra over Sphenophorus, and of Sitophilus Schön. over Calendra. (Proc. Ent. Soc. Wash. 21:21–26, 1919, and 27:113–114, 1925.)
Sphenophorus breeds in roots of grass-like plants.

18102 **S. aequalis** Gyll. (*ochreus* Lec.). Rochester (M&W); Buffalo (Z&R); Ithaca (Satt); **SI** (L&D); **LI:** Rockaway Beach (Shoe); Bellport, Je (Nic).

18107 **S. striatipennis** Chitt. N. Fair Haven, Je (H); McLean, May, Jl (Dt).

18108 **S. pertinax** Oliv. Rochester (M&W); Buffalo (Z&R); Cayuga L. (Satt); Cazenovia, Dunkirk, Ithaca (Satt); West Pt. (Robn); **SI,** Ap–May, Aug, in calamus, cattail, etc. (L&D); **LI:** Flushing, Mar, pupae and adults in chambers gnawed in base of cattail stems (Bell); Long Beach, Je (Ds); Brooklyn, Bellport (Nic); Wading R., May–Je (Nic); Orient Pt., May (Ds). Breeds in *Typha latifolia* and *Sparganium eurycarpum*; adults feed also on corn (Satt).

18110 **S. setiger** Chitt. Ithaca (Chitt); Dunwoodie (Satt); NYC (Satt); **SI,** May (L&D); **LI:** Cold Sp., Ap, Rockaway (Ds); Flatbush, Je (AM); Bellport, May–Je (Nic); Coney I. (Rbts).

—— **S. setiger** var. **intervallatus** Chitt. NY among type localities.

18112 **S. peninsularis** Chitt. var. **nasutus** Chitt. NYC, May (Satt).

18114 **S. costipennis** Horn. Buffalo (Horn); Pike, Jl (NYS); Renwick Swamp, Mar, *Bish* (NYS); Nassau, Je (NYS); Catskills (Wickham); West Pt. (Robn); **SI,** Mar, Je (L&D); **LI:** Brooklyn, Rockaway (B&L).

18114a **S. costipennis** var. **callosipennis** Chitt. Buffalo (Satt). Breeds in *Carex lacustris* (Satt).

18115 **S. villosiventris** Chitt. Buffalo (Chitt); Ithaca (Chitt); Orangeburg, May (Nic); **LI:** Rockaway, Je (Nic); Long Beach (Satt).

18120 **S. cariosus** Oliv. Buffalo (Rein); West Pt. (Robn); **SI,** Ap–Je (L&D); **LI:** Jamaica, May–Sep (B&L); Fire I. (B&L); Babylon, Je (AM); Brooklyn, May–Je (Satt); Wading R., May (Nic); Rockaway, Je (Nic); Long Beach, Je (Nic). Breeds in *Rynchospora corniculata, Scirpus Eriophorum,* and *Cyperus rotundus*; adults feed also on corn and on *Cyperus erythrorhizos* (Satt).

18122 **S. parvulus** Gyll. Peekskill, Mar (Satt); West Pt. (Robn); NYC (Satt); **SI,** Ap–Je (L&D); **LI:** Brooklyn, Jl (Nic); Babylon, Je (AM); Long Beach, Aug (Brownell); Southampton, Sep 24 (Satt). Breeds in wheat, timothy, blue grass, prop roots of corn, root bulbs of *Panicum repens,* and stalks of *Agrostis alba*; adults feed also on corn (Satt).

18123 **S. minimus** Hart. **LI:** Long Beach, Je 7 (Nic).

18124 **S. marinus** Chitt. West Pt., Sep (AM).

18126 **S. retusus** Gyll. Rochester (M&W); Nyack (AM); **LI:** Rockaway Beach (B&L); Fire I., Jl–Sep (B&L); Bellport, Aug (Nic); Long Beach, Jl, Coney I. (Satt). Breeds in *Panicum repens* (Satt).

18132 **S. zeae** Walsh (*sculptilis* records probably belong here). Syracuse, May (H); Rochester (M&W); Batavia, Je, Buffalo, Aug (Satt); Silver Cr., Jl, Hunt's Pt., Je (Satt); Ithaca, McLean, May–Sep (Dt); Schoharie (Not); Peekskill (B&L); West Pt. (Robn); Dunwoodie, Sep (Satt); Bronx, Feb–Sep (B&L); **SI,** Jl (L&D); **LI:** Rockaway (AM); Rosedale, Je (Nic); Long Beach, Aug (Wick); Jamaica, Je (Wick). Breeds in timothy; adults feed also on corn (Satt).

18135 **S. callosus** Oliv. THE CUKLEW BUG of the southern States. Ithaca, Ringwood, May–Je, Nov (Dt). Breeds in sedges, *Rynchospora corniculata,* and, in the Carolinas, in corn; adults feed also on wheat and throughout their range on corn (Satt).

18136 **S. melanocephalus** Fab. Buffalo (Z&R); Pike (Liebeck); Ithaca, Je (Dt); Windsor, Je (Not); West Pt. (Robn); Van Cort. Pk. (Satt); **SI**, May–Je (L&D); **LI:** Brooklyn, May (Nic, B&L); Long Beach, Je (Nic); Woodside, Ap (Satt). Breeds in *Leersia oryzoides*; adults feed also on *Carex* sp., and occur, perhaps for feeding, in bunches of *Elymus* sp., *Andropogon virginicus*, and *Sphenopholis obtusata* (Satt).

18137 **S. sayi** Gyll. **LI:** Long Beach, Je (Nic).

18141 **S. venatus** Say (*placidus* Say). NYC (Satt); **SI**, May–Je, Aug (L&D); **LI:** Rockaway Beach (Ds); Yaphank, Flatbush (AM); Long Beach, Aug (Brownell); Orient Pt., Je (NYS); Clason Pt., Jl, Jamaica (Satt). Breeds in *Cyperus esculentus*, Bermuda grass, wheat, and timothy; adults feed also on corn (Satt).

CALENDRA Clairville [60a]

(*Calandra* auct.)

18157 **C. granaria** L. GRANARY WEEVIL. Introduced. Generally distributed, infesting stored grain.

18159 **C. oryzae** L. RICE WEEVIL. Introduced. Generally distributed, infesting stored grain.

FAMILY PLATYPODIDAE

PLATYPUS Herbst

18166 **P. compositus** Say. **SI**, Jl 25 (L&D).

18167 **P. punctulatus** Chap. Long Island City, Aug (NYS); Astoria, Aug, on mahogany logs from Panama, *Felt* (Hopk).

FAMILY SCOLYTIDAE [61]

(*Ipidae* auct.)

SUBFAMILY SCOLYTINAE

SCOLYTUS Geoffroy

(*Eccoptogaster* Herbst)

18169 **S. quadrispinosus** Say. HICKORY BARK BEETLE. Very common. Syracuse, Cazenovia (Blkm); Middletown (Dt, Cy); Tivoli (Felt); Rye (Bird); Bronxville, Jl (Felt); **SI**, Je–Aug, causes death of many hickory trees (L&D); **LI:** Prospect Pk., Brooklyn (Felt).

18171 **S. rugulosus** Ratz. SHOT-HOLE BORER, or FRUIT-TREE BARK BEETLE. Probably generally distributed throughout the State, but somewhat less common in the northern part; often injurious to apple, cherry, plum, peach, and wild cherry. Representative localities are: Chazy; Plattsburg; Crittenden, Syracuse, Fulton, common, and Cranberry L., rare (Blkm); counties bordering L. Ontario shore; Ripley; Dansville;

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[61] The list for this family has been gone over by Dr. J. M. Swaine and Dr. M. W. Blackman, both of whom have supplied many records and made changes in synonymy.

Elmira; Tompkins Co; Albany Co; Pittstown; Columbia Co; Mt. Vernon; Katonah; **SI** (L&D).

18174 **S. piceae** Sw. Cranberry L., Je, not common (Blkm); Crittenden, Feb, Jl, common (Blkm). Larch, and red and white spruce (Blkm).

18179 **S. sulcatus** Lec. "NY" (Sw); Rochester (M&W).

CNESINUS LeConte

18186 **C. strigicollis** Lec. **SI,** Je (L&D).

SUBFAMILY HYLESININAE

CRYPTURGUS Erichson

18188 **C. atomus** Lec. Cranberry L., Syracuse, Cicero Swamp, Elka Pk., fairly common (Blkm); Ithaca (Sw); Normanskill, Albany, Yg (NYS). Pine, spruces, fir, and larch (Blkm).

18191 **C. corrugatus** Sw. Cranberry L., Elka Pk., fairly common (Blkm).

POLYGRAPHUS Erichson

18193 **P. rufipennis** Kby. Mt. Seward, Je, 4500 ft. (M&H); L. Pleasant (Lec); Big Moose (Felt); Cranberry L., Syracuse, Cicero Swamp, Elka Pk., very common except at Syracuse (Blkm); Ithaca (Sw). Pines, spruces, and larch (Blkm).

CARPHOBORUS Eichhoff

18196 **C. bicristatus** Chap. Buffalo (Z&R).

18197 **C. bifurcus** Eich. "NY" (Sw–Lec Coll.).

XYLECHINUS Chapuis

—— **X. americanus** Blkm. Cranberry L., not common (Blkm). Red and white spruce (Blkm).

CHRAMESUS LeConte

18202 **C. hicoriae** Lec. Syracuse, common (Blkm); Ithaca (Sw); West Pt. (Robn); **SI** (L&D). Hickory.

PHTHOROPHLOEUS Rey

18206 **P. liminaris** Harr. PEACH BARK BEETLE. Wanakena, Aug, Cranberry L., Je, fairly common (Blkm); Syracuse, not common (Blkm); LaSalle, Somerset (Lint); Buffalo (Kell); Penn Yan (Lint); Ithaca (Sw). Peach, wild cherry, and black cherry (Blkm).

18207 **P. frontalis** Oliv. "NY" (Sw); **SI,** on mulberry (L&D).

18209 **P. piceae** Sw. Cranberry L., fairly common on spruce (Blkm).

DENDROCTONUS Erichson

18221 **D. simplex** Lec. EASTERN LARCH BEETLE. Crittenden, May 4–22, *Stage* (Blkm). Larch.

18223 **D. piceaperda** Hopk. EASTERN SPRUCE BEETLE. "NY" (Hopk); L. Pleasant (Lec), as *rufipennis*. Spruce.

18229 **D. punctatus** Lec. ALLEGHENY SPRUCE BEETLE. Rochester (M&W); Buffalo (Z&R); Albany (Felt); **LI:** Manor (Felt); Islip (Hopk); Central Pk. (Eng). Swaine writes, "The Rochester, Buffalo, Albany, and Manor records I should think doubtful, unless checked by Hopkins."

18231 **D. valens** Lec. RED TURPENTINE BEETLE. Cranberry L., Syracuse, Elka Pk., common (Blkm); Ithaca (Hopk); West Pt. (Robn), as *terebrans*.

PHLOESINUS Chapuis

18237 **P. canadensis** Sw. Cranberry L., Syracuse, Jamesville, common to very common (Blkm). Arbor vitae.

18238 **P. dentatus** Say. Adirondacks (Felt); West Pt. (Robn); **LI:** Central Pk., Ap (Eng). Arbor vitae.

18239 **P. serratus** Lec. "NY" (Sw, Lec).

18244 **P. rugosus** Sw. **LI:** Flatbush (Ds).

LEPERISINUS Reitter

18247 **L. fasciatus** Lec. "NY" (Sw). Ash.

18248 **L. imperialis** Eich. "NY" (Sw–Can. Nat. Coll.).

18252 **L. aculeatus** Say. Newport (NYS); Syracuse, Sep–Oct, not common (Blkm); Olcott, Aug (Dt); Rochester (M&W); Buffalo (Z&R); Ithaca (Sw); Cornwall (NYS); **SI,** May 5 (L&D). Ash.

HYLASTINUS Bedel

18255 **H. obscurus** Marsh. CLOVER ROOT-BORER. Syracuse, May (Blkm); Buffalo, Je (Kell); Westfield, May (Not); Bristol Sps. (Lint); Ithaca, Je, *Dt* (Sw); **SI,** Je (L&D). Clover.

HYLURGOPINUS Swaine

18257 **H. rufipes** Eich. Rochester (M&W); Buffalo (Z&R); Ithaca, Je, *Dt* (Sw); Hoosick Falls, May (Blkm); West Pt. (Robn).

HYLURGOPS LeConte

18267 **H. pinifex** Fitch. Cranberry L., Syracuse, Elka Pk., very common (Blkm); Rochester (M&W); Buffalo (Z&R); Ithaca, Jl, Sep, *Dt* (Sw); West Pt. (Robn); **LI:** Central Pk., Ap (Eng). Pines and spruce.

HYLOCURUS Eichhoff

—— **H. biorbis** Blkm. Syracuse, May 12, *Stage*, type.

HYLASTES Erichson

(*Tomicus* Latreille)

18273 **H. salebrosus** Eich. Ithaca, Je, *Dt* (Sw). Pine.
18274 **H. scaber** Sw. "NY" (Sw).
18276 **H. porculus** Er. Ithaca (Sw). Pine.

SUBFAMILY MICRACINAE

MICRACIS LeConte

18288 **M. suturalis** Lec. Buffalo (Z&R); West Pt. (Robn).
18290 **M. rudis** Lec. "NY" (Sw).
18291 **M. opacicollis** Lec. Ithaca (Sw); **LI**: Westbury (US). Oak and Castanea.
18292 **M. asperulus** Lec. "NY" (Sw); Windsor, Je (Not).
—— **M. populi** Sw. Ithaca (Sw), type. Poplar.

THYSANOES LeConte

18294 **T. fimbricornis** Lec. Rochester (M&W); West Pt. (Robn).

PSEUDOTHYSANOES Blackman

—— **P. drakei** Blkm. Syracuse, type locality (Blkm). Basswood.

PTEROCYCLON Eichhoff

(*Monarthrum* Kirsch)

18298 **P. fasciatum** Say. Buffalo (Z&R); Ithaca, Jl, *Dt* (*Sw*); **SI**: Port Richmond (L&D). Maple, beech, etc. (Sw).
18299 **P. mali** Fitch. APPLE WOOD STAINER. Axton, Floodwood (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Olcott, *Dt* (Sw); Buffalo (Z&R); Ithaca, *Dt* (*Sw*); **SI**: Clove Val., May (L&D). Oak, birch, and various hardwoods; apple.

CORTHYLUS Erichson

18301 **C. punctatissimus** Zimm. "Northeastern NY" (Sz). Rhododendron.

XYLOTERINUS Swaine

18304 **X. politus** Say. Axton, Floodwood (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Buffalo (Z&R); Westfield, May (Not); Ithaca (Sw); Windsor, Je (Not); West Pt. (Robn). Various hardwoods and hemlock (Blkm).

TRYPODENDRON Stephens

18305 **T. scabricollis** Lec. "NY" (Lg Cat., Sw). Pine (Sw).
18306 **T. retusum** Lec. Cranberry L., Syracuse, Elka Pk., Jl–Aug, uncommon to fairly common (Blkm); Ithaca (Sw). Poplars.

18307 **T. betulae** Sw. Cranberry L., Elka Pk., very common (Blkm); Ithaca (Sw). Birches.

18309 **T. bivittatum** Kby. Big Moose, Jl, *Yg* (Felt), as *Xyloterus lineatus* Oliv., probably belongs here (Sw). Cranberry L., Syracuse, not very common, Elka Pk., common (Blkm); Ithaca (Sw). Pines, spruces, firs, hemlock, larch, and juniper (Blkm, Sw).

HYPOTHENEMUS Westwood

18321 **H. hispidulus** Lec. **SI,** Mar (L&D).

STEPHANODERES Eichhoff

18367 **S. dissimilis** Zimm. Ithaca, Sep (Frost, Sw), Nov (Chitt); **SI,** Je (L&D).

CRYPHALUS Erichson

18377 **C. balsameus** Hopk. Cranberry L., Elka Pk., common (Blkm). Fir.

—— **C. mainensis** Blkm. Cranberry L., common (Blkm). Spruce.

LETZNERELLA Reitter

18379 **L. jalappae** Letzn. **LI:** Brooklyn, 1874, *Hubbard* and *Sz*, from *Radix jalappae* (Sz).

GNATHOTRICHUS Eichhoff

18400 **G. materiarius** Fitch. Mt. Seward, 4500 ft., Je (M&H); Big Moose (Felt); Cranberry L., Syracuse, Elka Pk., common (Blkm); Buffalo (Z&R); Ithaca, Ap, Jl, *Dt* (*Sw*); West Pt. (Robn); **LI:** Manorville, Oct (Felt). Pine, spruce, larch, and fir.

CONOPHTHORUS Hopkins

18405 **C. resinosae** Hopk. **LI:** Southold, Mar 1, in red-pine cones (Blkm).

18410 **C. coniperda** Sz. Axton, Upper Jay, Cranberry L., in white-pine cones (Blkm).

PSEUDOPITYOPHTHORUS Swaine

18417 **P. minutissimus** Zimm. Syracuse, May, fairly common (Blkm); West Pt. (Robn). Oaks.

18419 **P. pruinosus** Eich. Peekskill (Ds); **LI:** Rockaway Beach, in wash-up (Nic). Oak.

PITYOPHTHORUS Eichhoff

18421 **P. ramiperda** Sw. Niagara, Je 21, 1909 (Blkm).

18423 **P. pulicarius** Zimm. Ithaca (Sw). Pines.

18425 **P. rhois** Sw. Syracuse, rather common (Blkm); Ithaca (Frost, Sw). Sumach and poison ivy (Blkm).

18428 **P. puberulus** Lec. Cranberry L., Syracuse, common (Blkm); Ithaca (Sw); Albany (Lint). Pine and fir.

18429 **P. opaculus** Lec. Cranberry L., very common (Blkm); Ithaca (Sw). Spruce and pine.

18437 **P. cariniceps** Lec. Syracuse, common in white pine (Blkm); Ithaca (Frost,Sw), Aug (Chitt).

18438 **P. canadensis** Sw. Axton, Sep, Cranberry L., common in white pine (Blkm).

18440 **P. pulchellus** Eich. **LI:** Westbury, Mar 23 (Blkm–US).

18442 **P. pullus** Zimm. "NY" (Sw). Pines.

18445 **P. granulatus** Sw. Cranberry L., Syracuse, infesting white pine similarly to *nudus* (Blkm).

18446 **P. nudus** Sw. Cranberry L., Syracuse, common in shaded-out limbs and small trees of white pine (Blkm).

18447 **P. consimilis** Lec. Ithaca (Sw); Windsor, Je (Not).

—— **P. dentifrons** Blkm. Cranberry L., very common in red spruce (Blkm).

—— **P. shepardi** Blkm. Cranberry L., very common in red spruce (Blkm).

PITYOGENES Bedel

18455 **P. hopkinsi** Sw. Axton, Upper Jay, Cranberry L., Elka Pk., Syracuse, Cicero Swamp, Schaghticoke, mostly in Sep, very common in white pine (Blkm); Ithaca (Frost).

18459 **P. plagiatus** Lec. "NY", in *Pinus banksiana* (Sw).

IPS DeGeer

(*Tomicus* Latreille)

18462 **I. calligraphus** Germ. Adirondacks (Felt); Buffalo (Z&R); Syracuse, Albany, not very common (Blkm); Ithaca (Sw); Lansingburg (Felt); West Pt. (Robn); **LI:** Central Pk., Ap (Eng); Manorville (Felt). Pines.

18463 **I. grandicollis** Eich. Cheektowaga (Lec); Ithaca (Sw); Windsor, Je (Not); Slingerlands, Karner, Aug–Sep (Felt); **SI,** Sep, on pine and spruce ((L&D); **LI:** Manorville, Oct (Felt).

18464 **I. chagnoni** Sw. "NY" (Sw). Pine.

18469 **I. longidens** Sw. Cranberry L., not common, Syracuse, fairly common in white pine (Blkm); Ithaca, from hemlock, type locality (Sw).

18475 **I. pini** Say. Saranac, Round L., L. Clear Jct. (Felt); Axton, Cranberry L., Elka Pk., Syracuse, very common in pine (Blkm); Buffalo (Z&R); Ithaca, Ap–Jl, *Dt* (Sw); Lansingburg, Rensselaer (Felt). Pine and hemlock (Sw).

18480 **I. borealis** Sw. Cranberry L., not common in white pine (Blkm).

PITYOKTEINES Fuchs

18488 **P. sparsus** Lec. Mt. Seward, Je (M&H); Cranberry L., Elka Pk., very common in fir (Blkm); Buffalo (Lec); West Pt. (Robn).

ORTHOTOMICUS Ferrari

18492 **O. caelatus** Eich. Rochester (M&W); Buffalo (Eich); Cranberry L., Elka Pk., Syracuse, Cicero Swamp, very common in stumps, in lower parts of trees, and in fallen trees of pines, spruces, and larch (Blkm); Ithaca, Mar–Jl, *Dt* (Sw); West Pt. (Robn).

18493 **O. punctipennis** Lec. "NY" (Sw).

AMBROSIODMUS Hopkins

18499 **A. tachygraphus** Zimm. "NY" (Sw).

ANISANDRUS Ferrari

18500 **A. obesus** Lec. Cranberry L., Elka Pk., not uncommon in beech (Blkm); West Pt. (Robn).

18502 **A. pyri** Peck. Syracuse, May, not common, *H* (Blkm); as *Xyleborus dispar*, a similar European species, Buffalo (Z&R), Lockport, Geneva, Penn Yan (Lint), probably referring to this species. Hardwood and fruit trees.

18503 **A. minor** Sw. Syracuse, not common, in sugar maple (Blkm); Ithaca (Sw).

—— **A. swainei** Drk. Cranberry L., Jl–Aug, not common (Drk).

XYLEBORUS Eichhoff

18506 **X. saxeseni** Ratz. Syracuse, Dec, in oak, not common (Blkm); West Pt. (Robn). Fruit trees (Sw).

18507 **X. xylographus** Say. "NY" (Sw).

18511 **X. pubescens** Zimm. **SI:** Watchogue, Aug (L&D).

18512 **X. celsus** Eich. Syracuse, very common in dying hickory (Blkm); **SI,** Ap, in tulip log (L&D).

18513 **X. fuscatus** Eich. Buffalo (Eich).

18524 **X. fitchi** Hopk. Described from **LI** (Hyslop), in Pinus.

XYLOCLEPTES Ferrari

18532 **X. cucurbitae** Lec. "NY" (Sw).

DRYOCOETES Eichhoff

18536 **D. granicollis** Lec. Cranberry L., Je 25, 1915, in spruce (Blkm); **SI,** Je (L&D).

18538 **D. americanus** Hopk. Cranberry L., Elka Pk., Cicero Swamp, fairly common in spruce and firs (Blkm); Ithaca (Sw); Windsor, Je (Not). The *D. septentrionis* Mann. (18539), "NY" (Lec in Trans. Am. Ent. Soc., vol 2, p. 161, 1868, as Xyleborus), perhaps belongs here (Lg).

18540 **D. betulae** Hopk. Mt. Whiteface, 4000 ft., Aug, *Dt* (Sw); Big Moose, *Yg* (Felt); Cranberry L., Elka Pk., very common in yellow birch, and occasionally in white birch and beech, a few in pine and spruce (Blkm).

18544 **D. affaber** Mann. (*piceae* Hopk., according to Sw). Cranberry L., Elka Pk., very common in spruce (Blkm).

LYMANTOR Lovell

18547 **L. decipiens** Lec. Ithaca, in maple (Sw).

ORDER STREPSIPTERA

FAMILY STYLOPIDAE

XENOS Rossi

X. wheeleri P. "NY," parasite of *Polistes metricus* (Pierce, 1918, p. 461).

X. peckii Kby. **SI,** based on a specimen in Ds Coll. of a stylopized Polistes (Lg).

ORDER MECOPTERA

FAMILY PANORPIDAE

PANORPA Linnaeus

P. affinis Bks. **LI:** Sea Cliff (Bks).

P. banksii Hine. **LI:** Sea Cliff (Hine). Type.

P. canadensis Bks. Adirondacks, Aug (Ds); Whiteface Mt., summit, Jl (Ds); Old Forge, Aug; Saranac L., Aug; Cranberry L., Jl, *div.*; Axton, Je, *MacG&Houghton*; trail to Mt. McIntyre.

P. claripennis Hine. Onteora Mt., Je, *How* (Bks).

P. confusa Westw. Ithaca, Je 26, 1915 (SmRC); Ft. Montgomery, Jl (Eng).

P. latipennis Hine. Mt. Whiteface, summit, Jl, common (Ds); Axton, Je (Eng); Rock City, Je (Ds); Old Forge, Jl (NYS–CU).

P. maculosa Hagen.[61a] St. Lawrence Co, Aug; Old Forge, Je (NYS–CU); Granberry L., Jl; Morissey, Axton, Je, *M&H*; Keene Val., Aug, *Diven*; Rock City, Je; Canandaigua L. (Felt); Ithaca, Je; Freeville, Jl; McLean, Je–Jl; Caroline to Harford, Je; Trenton Falls, Je, *Leon&Fbs*; Little Falls, Jl; L. George, Jl (Ndm); Tackawasick Pond, Rensselaer Co., Je 25, *Cy* (SmRC); Nyack, Je, West Pt., Je, Ft. Montgomery, May (Ds); Mosholu, Je, Aug (Bno); **SI,** Je (Ds).

P. nebulosa Westw.[61a] Saranac Inn (Ndm); Axton, Je, *M&H*; Old Forge, Aug; Castile, Je, *Brad*; Rochester Jct., Je, *Leon*; Portageville, Je; Ithaca, May–Jl (*div.*); Ringwood, Je; Mud Cr., Tompkins Co, Je; McLean, Ap; Trenton Falls (Wlk); Onteora Mt., *How* (Bks); Ramapo, Je (Ds); West Pt, Je; **SI:** Watchogue, Je (Ds); **LI:** Yaphank, Half Way Hollow Hills, Jl (Ds).

P. rufa Gray (*fasciata* Klug). "NY" (Fitch). Probably a misidentification; occurs in Ga.

P. rufescens Ramb. N. Twin Br., Mt. Marcy, Jl (*Fbs*); Syracuse, Aug; Batavia, Jl, *Kngt*; Castile, *Brad*; Ithaca and vic., common everywhere (*div.*); Trenton Falls (Wlk); Sharon Sps. (Hagen); Onteora Mt., Jl, *How* (Bks); Nyack, Je, Croton-on-Hudson, Je, Ramapo, May, Mosholu, May (Ds); **SI:** Tottenville, Richmond, Je–Aug (Ds); **LI:** Cold Sp. Harb., Jl–Aug, Yaphank, Jl, Pinelawn, Aug (Ds); Forest Pk., Je.

P. signifer Bks. Mt. Whiteface, summit, Jl (Ds); Saranac Inn (Ndm); E. Jewett, Aug (Eng); Greene Co, Jl; Keene Val., Aug, *Diven*; Cranberry L., *Drake*; Axton, Je, *MacG&Houghton*; Pine I., Jl, *Frost*.

P. subfurcata Westw. Axton, Je, *MacG&Houghton*; Cranberry L., Jl, *C.H.Foster* (div.); McLean, May (Ds); Sullivan Co, Sep (Ds); Onteora Mt., Jl, *How* (Bks); Ramapo, Je (Ds); Pine I., Je (Ds).

[61a] *P. maculosa* and *P. nebulosa* are much confused both in literature and in collections, and some records for each may be misplaced. The two species evidently fly together throughout the State. (Fbs).

P. venosa Westw. Axton, Je (M&H); Castile, May, *Brad* (Fbs); Ramapo, May (Ds); **SI**, Sep (Ds); **LI**: Cold Sp. Harb., Jl–Aug, and Yaphank, Jl (Ds); Pinelawn, Aug.

BOREUS Latreille

B. brumalis Fitch. Washington Co (Hagen); **SI**: Clove Valley, Dec, on snow (Ds); **LI**: Sea Cliff (Eng–AM).

B. nivoriundus Fitch. Ithaca, Dec 18 (Eng–AM); Washington Co (Hagen); **LI**: East New York, early spring, on snow (Fitch).

BITTACUS Latreille

B. apicalis Hagen. Canandaigua L., Jl 21, *Pettit* (CU); Six Mile Cr., Ithaca, Aug, *H. Yuasa*, rare; Batavia, Jl, *Kngt*.

B. pilicornis Westw. Trenton Falls, *OS* (Hagen); Mosholu, Je (Bno); Ithaca, Jl.

B. stigmaterus Say. "NY" (Hine).

B. strigosus Hagen. Batavia, Jl, *Kngt*; N. Hector, Aug; Ithaca, Jl (CU); **SI**: Richmond Hill, common in woods; **LI**: Cold Sp. Harb., Floral Pk., Jl (Ds); Queens, Jl.

MEROPE Newman

M. tuber Newn. Cranberry L., Jl 22 (CU); Ithaca, Aug 25, pair (*Fbs*); McLean, Aug 27 (Sib); Slaterville, Jl (Bdy); Trenton Falls, *Dbl* (Newn); Salem, Jl (Fitch); Sullivan Co, Aug (Jn).

ORDER TRICHOPTERA [62]

FAMILY RHYACOPHILIDAE

SUBFAMILY RHYACOPHILINAE

RHYACOPHILA Pictet

R. carolina Bks. Old Forge, Beaver Meadow Br., Jl (Bet).

R. fuscula Wlk. Old Forge, Ithaca, May–Aug (Bet).

R. nigrita Bks. (*torva* Bks. not Hagen). Colden, Je, *Bet* (EPV).

R. torva Hagen (*terminata* Bks., *luctuosa* Bks.). Woodworth's L., Gloversville, Je (Alex); Ithaca, Je (Bet); Trenton Falls (OS).

R. sp. Old Forge, Jl (Bet).

R. sp. Fulton Chain, Aug (Bet).

R. sp. Ithaca, Aug (Bet).

SUBFAMILY GLOSSOSOMATINAE

MYSTROPHORA Klapálek

M. americana Bks. Niagara Gorge (Bet); Newfield, Je (MacG); Ithaca (Lloyd); McLean, Je, Aug (Sib).

M. sp. Ogdensburg (Bet).

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[62] The list of Trichoptera has been compiled principally from Dr. Cornelius Betten's extensive manuscript dealing with a revision of the American Trichoptera. Many of the species in the present list recorded simply as "sp.," bear manuscript names in Dr. Betten's monograph, and for a number of species Dr. Betten has erected new genera. Since immediate publication of Dr. Betten's paper unfortunately is not assured, it has seemed impossible to indicate here the proper generic position of all species or to use his manuscript names for new species.

AGAPETUS Curtis

A. minutus Sib. McLean, Sep (Sib).

FAMILY HYDROPTILIDAE

AGRAYLEA Curtis

A. multipunctata Curtis. Ogdensburg, Ithaca, Jl–Sep (Bet); McLean, Je, Sep, very common (Sib).

PROTOPTILA Banks

P. maculata Hagen. Ogdensburg, Buffalo, Ithaca, Jl–Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks).

ORTHOTRICHIA Eaton

O. americana Bks. Ithaca, Jl (Bet).

O. brachiata Morton. Ithaca, Jl (Bet).

O. pictipes Bks. Hales Cr., Johnstown, Je, *Alex,* type.

ITHYTRICHIA Eaton

I. clavata Morton. Ithaca, Jl (Bet).

I. confusa Morton. Ithaca, Aug (Bet); Cascadilla Cr., Ithaca (Lloyd); McLean, Jl (Sib). Should be a new genus.

HYDROPTILA Dalman

H. albicornis Hagen. Old Forge, Ithaca, Aug (Bet); McLean, Je–Sep, very common (Sib).

H. consimilis Morton. Ithaca, Jl (Bet); McLean, Jl–Sep (Sib).

H. delineata Morton. Ithaca, Jl (Bet).

H. hamata Morton. Ithaca, Jl (Bet).

H. perdita Morton. Ithaca, Jl (Bet).

H. spatulata Morton. Ithaca, Jl (Bet).

OXYETHIRA Eaton

O. coercens Morton. Ithaca, Jl (Bet).

O. viminalis Morton. Ithaca, Jl (Bet).

O. dualis Morton. McLean, Aug–Sep (Sib).

O. sp. Old Forge, Jl–Aug, Ithaca, Aug (Bet).

NEOTRICHIA Morton

N. collata Morton. Old Forge, Ithaca, Jl–Aug (Bet).

FAMILY **PHILOPOTAMIDAE**

PHILOPOTAMUS Leach

P. americanus Bks. Gloversville, Mar, *Alex* (Bet); **LI**: Sea Cliff, Mar–Ap, Dec (Bks).

P. distinctus Wlk. Woodworth's L., Je, *Alex* (Bks); West Falls, Jl (Bet); Ithaca, Jl (Bet); Trenton Falls (Wlk).

DOLOPHILUS Banks

D. breviatus Bks. Old Forge, Buffalo, Jl (Bet); Ithaca, Jl (Bks).

CHIMARRHA Leach

C. aterrima Hagen. Ogdensburg, Jl–Aug, very common (Bet); Johnstown, Sacandaga Pk., Aug, *Alex* (Bks); Ithaca, Jl–Aug (Bet); McLean, May–Aug (Sib); **SI**, Je (Ds).

C. socia Hagen. Johnstown, Sacandaga Pk., Je, *Alex* (Bks); Tupper L., Niagara Falls, Lancaster, Ithaca, Je–Aug (Bet).

C. sp. Ogdensburg, Ithaca, Je–Aug (Bet).

FAMILY **HYDROPSYCHIDAE**

SUBFAMILY **HYDROPSYCHINAE**

ARCTOPSYCHE McLachlan

A. apicalis Bks. Fourth L., Je (Dickerson); Old Forge, Jl (Bet); Sacandaga Pk., Je, *Alex* (Bks); Castile, Je, *Brad* (Sib); McLean, Je (Sib). Should be new genus.

DIPLECTRONA Westwood

D. modesta Bks. Woodworth's L., Je, *Alex* (Bks); Newfield, Je, *Bet* (MacG); McLean, Je–Jl (Lloyd, Sib).

HYDROPSYCHE Pictet

H. alternans Hagen. Old Forge, Fourth L., Ithaca, Jl–Aug (Bet); McLean, Jl–Sep (Sib); Onteora Mt., *How* (*Caudell*).

H. chlorotica Hagen. Buffalo, Je, very common (Bet); Trenton Falls (OS).

H. incommoda Hagen. Saranac Inn, Old Forge, Ithaca, May–Sep (Bet).

H. phalerata Hagen. Saranac Inn, Ithaca, Jl–Aug (Bet); McLean, Je–Sep (Sib).

H. recurvata Bks. McLean, Je–Aug (Sib).

H. scalaris Hagen. Ogdensburg, Buffalo, Jl–Sep (Bet); Sacandaga Pk., Je, *Alex* (Bks).

H. venularis Bks. Old Forge, Jl (Bet).

H. sp. Ogdensburg, Aug (Bet).

H. sp. Niagara Falls, Ithaca, Aug (Bet).

H. sp. Ithaca, Je (Bet).

HYDROPSYCHODES Ulmer

H. analis Bks. Ogdensburg, Old Forge, Saranac Inn, Buffalo, Ithaca, Je–Sep (Bet); McLean, Je–Sep (Sib).

H. sordida Hagen. Ogdensburg, Jl–Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks); McLean, Jl–Aug (Sib).

SUBFAMILY MACRONEMATINAE

MACRONEMA Pictet

M. zebratum Hagen. Saranac L., Je (NYS); Sacandaga Pk., Je, *Alex* (Bks); Niagara R., Buffalo, Jl, very common (Bet).

FAMILY POLYCENTROPIDAE

SUBFAMILY POLYCENTROPINAE

NEURECLIPSIS McLachlan

N. crepuscularis Wlk. Buffalo, Je-Jl, common (Bet).

N. parvula Bks. Ogdensburg, Buffalo, Ithaca, Jl–Aug (Bet).

PHYLOCENTROPUS Banks

P. lucidus Hagen. Saranac Inn, Old Forge, West Falls, Je (Bet); Sacandaga Pk., Gloversville, Je, *Alex* (Bks); McLean, Je–Aug (Sib); Trenton Falls (OS).

P. placidus Bks. Saranac Inn, Buffalo, Jl–Aug (Bet); Sacandaga Pk., Je, *Alex* (Bks); McLean, Je, Aug (Sib).

PLECTROCNEMIA Stephens

P. adironica Bks. Axton, Je (MacG).

P. canadensis Bks. Ogdensburg, Old Forge, Ithaca, Je–Jl (Bet); Sacandaga Pk., Woodworth's L., Je, *Alex* (Bks); McLean, Jl–Aug (Sib).

P. confusa Hagen. McLean, Aug–Sep (Sib); Trenton Falls (OS); **SI:** Silver L., Je (Bks,Ds).

P. sp. Buffalo, Jl (Bet).

POLYCENTROPUS Curtis

?**P. maculatus** Bks. McLean, Jl (Sib).

P. sp. Ogdensburg, Aug (Bet).

HOLOCENTROPUS McLachlan

H. flavus Bks. Long Pt., Cayuga L., Je (Bet); McLean, Je–Jl (Sib).

NYCTIOPHYLAX Brauer

N. affinis Bks. Buffalo (EPV).

N. vestitus Hagen. Westport, Aug (NYS); Old Forge, Buffalo, Je, Aug (Bet); Woodworth's L., Sacandaga Pk., Je, *Alex* (Bks); McLean, Je–Aug (Sib); Nassau (Felt).

FAMILY **PSYCHOMYIDAE**

LYPE McLachlan

L. sp. Old Forge, Je–Jl (Bet); McLean, Je–Aug (Sib).

PSYCHOMYIA Latreille

P. flavida Hagen. Gloversville, Johnstown, May–Je, *Alex* (Bks); Niagara Falls, Buffalo, Jl (Bet); McLean, Je–Aug, very common (Sib).

FAMILY **CALAMOCERATIDAE**

GANONEMA McLachlan

G. nigrum Lloyd. McLean, Je–Jl (Lloyd, Sib); New Rochelle (Mrs. N.F.Davis).

HETEROPLECTRON McLachlan

H. boreale Prov. Sacandaga Pk., Je, *Alex* (Bks); Ft. Montgomery (Ds); **SI,** May (Ds). Probably the same as Psilotreta.

FAMILY **ODONTOCERIDAE**

PSILOTRETA Banks

P. dissimile Bks. **LI:** Sea Cliff, Je–Jl (Bks).

P. frontalis Bks. Ogdensburg, Old Forge, Jl (Bet); Castile, Je, *Brad* (Sib); Freeville, May–Je (Lloyd); McLean, Je (Sib); Nassau (Felt); New Rochelle (Mrs. N.F.Davis); **LI:** Sea Cliff, Je (Bks). Probably this is *boreale* Prov.

FAMILY **MOLANNIDAE**

SUBFAMILY **MOLANNINAE**

MOLANNA Curtis

M. blenda Sib. Old Forge, Jl (Bet); McLean, Aug–Sep (Sib).

M. cinerea Hagen. Ogdensburg, Old Forge, Buffalo, May–Aug (Bet); Woodworth's L., Sacandaga Pk., Je, *Alex* (Bks).

M. flavicornis Bks. Ogdensburg, Buffalo, Jl (Bet).

M. rufa Hagen. Trenton Falls (OS).

M. sp. Old Forge, Canoga, Cayuga L., Jl–Aug (Bet); Oxford, Jl (Sib).

M. sp. Saranac Inn, Old Forge, Je–Aug (Bet); Nassau (Felt).

SUBFAMILY **BERAEINAE**

BERAEA Stephens

B. nigritta Bks. Ithaca (Bet); **LI:** Sea Cliff, Je (Bks).

FAMILY **LEPTOCERIDAE**

LEPTOCERUS Leach

L. ancylus Vorhies. Buffalo, Jl (Bet); Ithaca (Lloyd).
L. dilutus Hagen. Buffalo, Ithaca, Je (Bet).
L. maculatus Bks. McLean, Jl–Aug (Sib).
L. punctatus Bks. Ogdensburg, Ithaca, Jl–Aug (Bet).
L. recurvatus Bks. Westfield, Je–Jl (Woglum).
L. submacula Wlk. Buffalo, Je, common (Bet).
L. tarsi-punctatus Vorhies. Saranac Inn, Ogdensburg, Old Forge, Jl–Aug (Bet).
L. variegatus Hagen. Ogdensburg, Old Forge, Saranac Inn, Ithaca, Je–Aug (Bet).
L. sp. Buffalo, Je (Bet).
L. sp. Ogdensburg, Saranac Inn, Old Forge, Buffalo, Jl–Aug (Bet).
L. sp. Buffalo, Jl (Bet).

LEPTOCELLA Banks

L. albida Wlk. Ogdensburg, Buffalo, Je–Aug (Bet); Clayton, Jl (Felt); Niagara Falls, Jl (Ds).
L. exquisita Wlk. Ogdensburg, Buffalo, Ithaca, Je–Aug (Bet); Sacandaga Pk., Johnstown, Je, *Alex* (Bks); Albany (Felt).
L. pavida Hagen. Old Forge, Jl (Bet).

OECETIS McLachlan

O. avara Bks. Ogdensburg, Buffalo, Ithaca, Jl–Aug (Bet); McLean, Jl–Aug (Sib).
O. immobilis Hagen. Ogdensburg, Aug, common (Bet).
O. incerta Wlk. Westport (NYS); Ogdensburg, Old Forge, Buffalo, Jl–Sep, very common (Bet); Woodworth's L., Sacandaga Pk., Je–Aug, *Alex* (Bks); McLean, Je–Aug (Sib); **LI** (Bks).
O. persimilis Bks. Saranac Inn, Old Forge, Jl (Bet).
O. resurgens Wlk. (*fumosa* Bks.). Ogdensburg, Old Forge, Buffalo, Jl–Aug (Bet); **SI** (Ds); Silver L., Je (Bks, Ds).
O. sp. Old Forge, Clayton, Jl (Bet).

SETODES Rambur

S. americana Bks. McLean, Jl–Aug, very common (Sib).
S. grandis Bks. Ogdensburg, Old Forge, Ithaca, Je–Jl (Bet).
S. vernalis Bks. Old Forge, Ithaca, Jl–Aug (Bet); Tonawanda (EPV).
S. sp. Ogdensburg, Buffalo, Jl (Bet).

MYSTACIDES Latreille

M. longicornis L. Ogdensburg, Aug (Bet).
M. nigra L. Ogdensburg, Jl (Felt); Ramapo, May (Ds).
M. sepulchralis Wlk. Sacandaga Pk., Je–Aug, Johnstown, Je, *Alex* (Bks); Ithaca, McLean (Sib); L. George, L. Heart (Sib); Clayton, Nassau (Felt). Common at many points. Specimens reported as *nigra* doubtless belong here (Bet).

TRIAENODES McLachlan

T. dentata Bks. Ogdensburg, Jl (Bet); Johnstown, Je (Alex).

T. ignita Wlk. Westport, Aug (NYS); Ogdensburg, Buffalo, Aug (Bet); Niagara Falls, Jl (Ds); Castile, *Brad* (Sib); Pine I., Je (Ds); **SI:** Clove Val., Aug (Ds).

T. injusta Hagen (*flavescens* Bks.). Ogdensburg, Saranac Inn (Bet); McLean, Aug (Sib).

T. sp. Ogdensburg, Buffalo, Aug (Bet).

T. sp. Ithaca (CU); McLean, Jl–Aug (Sib).

FAMILY PHRYGANEIDAE

PHRYGANEA Linnaeus

P. cinerea Wlk. Ogdensburg, Old Forge, Jl (Bet).

P. improba Hagen. Catskills.

P. interrupta Say. Ogdensburg, Jl–Aug (Bet); Clayton (Felt); Ithaca, May–Je (Lloyd), Jl–Aug (Bet); McLean, Jl–Aug (Sib); Sullivan Co (Ds); **SI:** Clove Val., Jl (Ds); **LI:** Deep Pond, Wading R., Je–Jl (Ds).

P. vestita Wlk. Saranac Inn (Bet); Ithaca (Bet), Je (Lloyd); McLean, Aug (Sib); **SI,** May (Ds).

NEURONIA Leach

N. concatenata Wlk. Ogdensburg, Keene Val., Old Forge, Jl (Bet); Johnstown, Jl (Alex).

N. dossuaria Say. Keene Val., Old Forge, Jl (Bet).

N. ocellifera Wlk. Batavia, Jl (Lloyd); **SI,** May–Aug (Ds).

N. pardalis Wlk. Gloversville, Je (Alex); McLean, Michigan Hollow (Lloyd); Ramapo, Je (Ds).

N. postica Wlk. Woodworth's L., Je (Alex); Castile, *Brad* (Sib); Ithaca, McLean, May–Je (Lloyd); Onteora Mt., Je (Caudell).

N. semifasciata Say. Keene Val., Old Forge, Je–Jl (Bet); Mt. Marcy (NYS); Sacandaga Pk., Je (Alex); NYC, Jl (Ds).

N. stygipes Hagen. Castile, *Brad* (Sib); McLean (Lloyd); **SI,** Ap (Ds).

AGRYPNIA Curtis

A. glacialis Hagen. McLean, Sep (Sib).

A. straminea Hagen. Saranac Inn, Aug (Bet).

FAMILY LIMNEPHILIDAE

ARCTOECIA McLachlan

A. consocia Wlk. Sacandaga Pk., Je (Alex); Ithaca, Je (Lloyd); McLean, Jl–Sep (Sib).

ASTENOPHYLAX McLachlan

A. argus Harr. Keene Val., N. Elba, Je; McLean, Michigan Hollow, Je (Lloyd); Oxford (Sib); **SI,** Je (Ds).

CARBORIUS Navas

C. punctatissimus Wlk. Newport, Sep (Bet); Woodworth's L., Aug, *Alex* (Bks); McLean, Sep (Sib); Onteora Mt., Je, *How* (Caudell).

LIMNEPHILUS Leach

L. indivisus Wlk. Pinnacle Mt., Gloversville, Jl–Aug (Alex); Castile, *Brad* (Sib); Hamburg, Aug (EPV); Lancaster, Jl (Bet); McLean, Aug (Sib); Ithaca, May (Lloyd).

L. ornatus Bks. Saranac Inn, Je (Bet); Castile, *Brad* (Sib); Onteora Mt., Je, *How* (Caudell).

L. pulchellus Bks. McLean, May–Je (Sib).

L. rhombicus L. McLean, Michigan Hollow, Je–Jl (Lloyd).

L. sublunatus Prov. Axton (Bet).

L. submonilifer Wlk. Mt. McIntyre, Je (Sib); Chazy L. (NYS); Ogdensburg, Newport, Pike, Albany, May–Je, Aug–Sep (Bet); Pinnacle Mt., Gloversville, Canada L., Je–Sep (Alex); Castile, *Brad* (Sib); McLean, Je (Sib). Should be a new genus in group of Colpotaulius.

L. sp. Saranac Inn, Jl–Oct (Bet).

L. sp. Old Forge, Ithaca, Aug (Bet).

L. sp. Long L., Aug (Bet).

L. sp. Ithaca (Bet).

STENOPHYLAX Kolenati

?S. divergens Wlk. W. Hebron, Sep (Ds); Delaware Co?, Sep (Bks, Ds); Debruce, Sep (Ds).

S. gentilis McL. McLean, Sep (Sib).

S. infernalis Bks. Pinnacle Mt., Sep (Alex).

S. limbatus McL. Mt. Marcy, Jl (Felt); Old Forge (Bet); Pinnacle Mt., Sep (Alex); McLean, Sep (Sib).

S. scabripennis Ramb. Keene Val., Saranac Inn, Old Forge, Jl–Aug (Bet); Johnstown, Woodworth's L., May–Aug (Alex); Ithaca, McLean, Aug–Sep (Sib).

HALESUS Stephens

H. guttifer Wlk. Saranac Inn, Keene Val., Wilmington, Aug (Bet); Michigan Hollow, Aug, Nov (Lloyd); McLean, Aug–Sep (Sib).

H. similis Bks. Sacandaga Pk., Gloversville, Aug–Sep, *Alex* (Bks).

PLATYPHYLAX McLachlan

P. lepidus Hagen. Livingston, Sep (Ds); McLean, Aug–Sep (Sib); W. Hebron, Sep, *CW Levy* (Ds); Palenville (Ds).

P. subfasciatus Say. Gloversville, Aug (Alex); Ithaca (Bet).

GLYPHOTAELIUS Stephens

G. hostilis Hagen. Ithaca (Lloyd); McLean (Sib).

ANABOLIA Stephens

A. bimaculata Wlk. Old Forge, Keene Val., Tupper L., Jl (Bet).

PLATYCENTROPUS Ulmer

P. indistinctus Wlk. Saranac Inn, Je, Aug (Bet).

P. maculipennis Kol. Saranac Inn, Keene Val., L. Pleasant, Old Forge, Jl (Bet); Castile, Je, *Brad* (Sib); McLean, Jl–Aug (Lloyd, Sib); **SI,** Je, Aug (Ds).

DRUSUS Stephens

D. sparsus Bks. (*calypso* Bks.). Catskills, Je (Bks); Onteora Mt., Je, *How* (Caudell); **LI,** May (Bks).

D. sp. Hamburg, Ithaca, Jl (Bet). This and the preceding should form a new genus near Drusus.

HESPEROPHYLAX Banks

H. designatus Wlk. McLean, Ap–Aug (Lloyd).

LEPTOPHYLAX Banks

L. gracilis Bks. McLean, Je–Jl (Sib).

GLYPHOPSYCHE Banks

G. irrorata Fab. Gloversville, Mar, *Bet* (Alex).

CHILOSTIGMA McLachlan

C. difficile Wlk. N. Elba, Oct (Ds); Otto, Oct–Nov, *Bet* (Comst); McLean, Oct-Dec (Lloyd); **SI,** Nov–Dec (Bks, Ds).

C. pallidum Bks. Ithaca (Bks); McLean, Nov (Sib).

NEOPHYLAX McLachlan

N. autumnus Vorh. Gloversville, Pinnacle Mt., Johnstown (Alex); McLean, Sep, Nov (Lloyd, Sib). This may be the same as *concinnus* McL.

N. concinnus McL. McLean, Sep, Nov (Lloyd, Sib).

N. fuscus Bks. Ogdensburg, Sep (How); McLean, Sep (Sib).

N. sp. Old Forge, Elizabethtown, Jl–Aug (Bet).

APATANIA Kolenati

A. incerta Bks. **LI:** Sea Cliff, Ap (Bks).

FAMILY SERICOSTOMATIDAE

SUBFAMILY BRACHYCENTRINAE

BRACHYCENTROPUS Curtis

B. fuliginosus Wlk. St. Lawrence R., May, *Bet* (Comst).

B. lutescens Prov. Ithaca (Bks).

B. nigrosoma Bks. Ithaca (Bks); McLean, May (Lloyd).

SUBFAMILY SERICOSTOMATINAE

AGARODES Banks

A. grisea Bks. Ogdensburg, Clayton, Je (Bet); Woodworth's L., as *Schizopelex lobata* Bks., Je, *Alex*, type.

SUBFAMILY GOERINAE

GOERA Leach

G. calcarata Bks. Old Forge, Jl (Bet); Gloversville, Johnstown, Je, *Alex* (Bks); Ithaca, Ap–May (Lloyd); McLean, Je–Jl (Sib); **LI:** Sea Cliff, Jl (Bks).

SILO Curtis

S. griseus Hagen. Trenton Falls (OS).

SUBFAMILY LEPIDOSTOMATINAE

MORMOMYIA Banks

M. vernalis Bks. Castile, Je, *Brad* (Sib); McLean, May (Sib); **LI:** Sea Cliff, May (Bks).

ALEPOMYIA Banks

A. wisconsinensis Vorhies. Old Forge, Je, Aug (Bet); McLean, May (Sib).

A. sp. Pike (Bet). Perhaps these two should be in a new genus, as the spurs are 2-4-4.

THELIOPSYCHE Banks

T. parva Bks. Woodworth's L., *Alex*, type.

OLEMIRA Banks

O. americana Bks. Woodworth's L., Aug, *Alex* (Bks); **LI:** Sea Cliff, Jl (Bks).

O. costalis Bks. Ogdensburg, Old Forge, Jl–Aug (Bet); Woodworth's L., Aug (Alex); McLean, Sep (Sib).

PHANOPSYCHE Banks

P. grisea Bks. Ogdensburg, Aug (Bet); Woodworth's L., *Alex*, type; McLean, Aug–Sep (Sib).

LEPIDOSTOMA Rambur

L. pallidum Bks. Ithaca (Bks).

L. togatum Hagen. Ogdensburg, Aug (Bet); Woodworth's L., Sacandaga Pk., Johnstown, Je–Aug, *Alex* (Bks).

SUBFAMILY HELICOPSYCHINAE

HELICOPSYCHE Hagen

H. borealis Hagen. Ogdensburg, Old Forge, Je–Jl (Bet); Johnstown, Sacandaga Pk., Mountain L., Je, *Alex* (Bks); Buffalo, Lancaster, Ithaca, Je–Jl (Bet); L. George (Sib); Nassau (Felt).

ORDER LEPIDOPTERA

Compiled by W. T. M. Forbes

The following list of Lepidoptera of New York is based on a tentative list drawn up by the compiler in 1916. That preliminary list was prepared without memoranda of collector or determiner unless there was something highly unusual in the records; and it proved impracticable later to insert these in the limited time available, owing to the amount of labor which would be involved in going through the various records again. The names of the collectors to be credited with all or the great majority of records at certain of these places are presented here:

Albany, Lintner *et al.*; Batavia, Knight; Bath, Lintner; Big Indian Valley, Pearsall; Brockport, Bruce; Buffalo, Kellicott; Center, Lintner *et al.*; Clayton, Stebbins; Debruce, Shoemaker; Evans Center, Grote; Fentons, Hill; Florida, S. W. Frost; Honeoye Falls, Leonard; Ilion, McElhose; Karner, Lintner *et al.*; Katonah, Beutenmüller; Lancaster, E. P. Van Duzee; Lewis County, Hill; Liberty and New Windsor, Emily Norton; Oliverea, Pearsall; Onteora Mt., L. O. Howard; Otto, Comstock and Slingerland; Plattsburg, Hudson; Rensselaer and Schoharie, Lintner; Sharon, Meske; Staten Island, Davis; Stony Clove, Watson; Trenton Falls, Doubleday; Waddington, Woodruff; West Farms, Angus.

Most of the specimens have been seen and determinations verified by the compiler. There are incorporated, however, a considerable number of local lists of very variable quality, and the compiler has had to use his judgment in including or omitting records of species which have perhaps been misdetermined. He hopes that no species which are really members of the New York fauna have been omitted in this way, though doubtless a few really correct records of stragglers from other faunas have been overlooked. Additions to the preliminary list have been made largely by correspondence or by collections of the Cornell University entomologists, and the collector or the determiner has been cited in all records of any particular interest.

The dates and food plants given are gathered from a wide variety of sources and not wholly from New York material. The dates given at the end of the series of records for each species are intended to apply especially to central New York; dates for southern New York are usually earlier in the spring and later in the fall, and in many cases, where definite records are available, have been cited in detail. When New York dates were fragmentary or lacking, dates were taken from outside the State.

The first entomologist to make a considerable collection of the Lepidoptera of New York was Edward Doubleday, who visited for a time at Trenton Falls and published an account of his visit. Augustus Radcliffe

Grote was the first entomologist living in the State (at Evans Center) who worked especially on the Lepidoptera for a period of years. The collections of both these men are now in the British Museum. Doubleday's records were mainly published by Walker, while Grote published many records himself, besides those which were incorporated in Van Duzee's list of the Lepidoptera of the vicinity of Buffalo. In those families for which the British Museum material has been recently worked over in Hampson's *Catalogue of the Lepidoptera Phalaenae,* the records have been taken from this rather than from the earlier publications.

Manuscript of the list has been submitted to most of the lepidopterists of the State. There have thus been obtained many additional records from Mr. Davis in the entire order, from Messrs. Watson, Angle, and Bell in the butterflies, and from Mr. Wild in all groups but especially in the Microlepidoptera. Mr. Engelhardt has gone over the whole list, and has made numerous additions and corrections, but especially in the Ægeriidae, and Mr. Bird has similarly concentrated on the Papaipema group. We are particularly indebted to Mr. Angle for allowing us to incorporate a manuscript list of the Rhopalocera of the State, with many records.

The arrangement of families follows the synopsis in Memoir 68 of the Cornell University Agricultural Experiment Station, pages 34 to 44. For the species also that memoir is followed, with some corrections, as far as it goes—that is, through the Drepanidae. Beyond this point the order within each family is approximately that of Barnes and McDunnough's check list, sometimes reversed in order to start each family with the recognized primitive forms. The numbers attached are those of Barnes and McDunnough's list, more recently recognized segregates being designated by decimal numbers, and other recently described species by a dash in the number column.

County records are cited only when no more specific records from the county are at hand, save in the case of a few records from economic sources, where the citation is "——— Co, generally." In such cases the species is believed to occur wherever the food plant is commercially grown in the county. Local lists are treated similarly where detailed localities are not given in them, except in the case of Staten Island, which is generally taken as a unit.

In all, 2439 named forms are recognized as more or less authentically reported from the State, besides a few very doubtful ones passed over in footnotes. Of these, 169 are treated as varieties and 2270 as apparently valid species. There are also 11 undescribed Microlepidoptera of more than usual interest, mentioned in the list.

SUBORDER JUGATAE

FAMILY MICROPTERYGIDAE

MICROPTERYX Hübner

8481 **M. auricrinella** Wlsm. Mt. Marcy, 4000 ft. (*Fbs*) and *Wehrle*; Keene, *Wild* (Fbs); Caroline–Harford. May–Jl.

FAMILY ERIOCRANIIDAE

ERIOCRANIA Zeller

8477 **E. auricyanea** Wlsm. Karner (empty mine), Mar–Ap. Oak, chestnut, and chinquapin.

FAMILY HEPIALIDAE: THE SWIFTS

STHENOPIS Packard

8482 **S. argenteomaculatus** Harr. Castile, *Brad*; Catskills; **LI**: Glendale; former breeding places in red maple and alder swamps near Brooklyn have been destroyed; not taken for thirty years (Eng). Midsummer. Alder.

8483 **S. purpurascens** Pck. form **quadriguttatus** Grt. Adirondack Lodge, *Bish* (Fbs); Lancaster, Buffalo (EPV); Albany.

8485 **S. auratus** Grt. Fentons; Lancaster; Ithaca; McLean; Granville, Jl 4 (Eng); summit of Catskills, Jl.

8484 **S. thule** Strk. Waddington, Jl, *Wood*.

HEPIALUS Fabricius

8490 **H. gracilis** Grt. Allegany Pk., Aug 23, *Wild* (Fbs).

SUBORDER FRENATAE

FAMILY INCURVARIIDAE

TEGETICULA Zeller

8471 **T. yuccasella** Rly. Ithaca (Fbs); **LI**, May–Jl. *Yucca filamentosa.*

INCURVARIA Haworth

8430 **I. russatella** Clem. Ithaca. May; Jl.

8429 **I. taylorella** Kf. Newcomb. May; Jl. Ribes.

PARACLEMENSIA Dyar

8443 **P. acerifoliella** Fitch. St. Lawrence Co, generally; Black Br.; L. George (NYS); West Falls, *Wild* (Fbs); Ithaca; McLean; Deposit; Bolton (Felt); Albany. Maple.

ADELA Latreille

8449 **A. ridingsella** Clem. Rock City; Ithaca. Je–Jl.

8454 **A. purpura** Wlk. Cranberry Cr., Ap.

8457 **A. bella** Cham. Gowanda (*Wild*); Crugers. Je.

FAMILY **NEPTICULIDAE**

ECTOEDEMIA Busck

8422 **E. heinrichi** Bsk. E. Aurora, Je (*Wild*).

NEPTICULA von Heyden

8384 **N. slingerlandella** Kf. PLUM LEAF-MINER. Rochester. Plums and prunes, wild plum (*Prunus americana*), and occasionally sweet cherry.

8383 **N. pomivorella** Pck. APPLE SERPENTINE LEAF-MINER. Castile, Je, *Brad* (Fbs); Albion; Geneva. Apple.

8373 **N. latifasciella** Cham. E. Aurora, Je, *Wild* (Braun).

FAMILY **MEGALOPYGIDAE**

MEGALOPYGE Hübner

(*Lagoa* Harris)

4858 **M. opercularis** S. & A. A stray has been found at Ithaca.

4861 **M. crispata** Pck. FLANNEL MOTH. Le Roy (CU Econ); Onteora Mt.; New Baltimore; Bethlehem; Karner; Albany; Rhinebeck; Poughkeepsie; New Windsor; Rye; Croton-on-Hudson; Katonah; **SI; LI:** Brooklyn, Woodhaven, etc. Je–Jl. Various shrubs and trees.

FAMILY **EUCLEIDAE**

PHOBETRON Hübner

4832 **P. pithecium** S. & A. HAG-MOTH. Bolton (larvae); New Haven, Albion (NYS); McConnellsville (CU Econ); Canandaigua (NYS); Lockport (NYS); Niagara Falls; E. Aurora, Buffalo; Sodus (NYS); Oswego; Lancaster; Randolph (CU Econ); Castile, *Brad*; Otsego (CU Econ); St. Johnsville (NYS); Hudson Val., from Rensselaer south; **LI.** Aug–Sep. A general feeder on shrubs.

ISOCHAETES Dyar

4833 **I. beutenmulleri** H. Edw. **SI,** pin oak (Joutel).

SIBINE Herrich-Schaeffer

4812 **S. stimulea** Clem. SADDLE-BACK. Poughkeepsie; Highland Falls, Ossining, Athens, Catskill, Cementon, Kingston, Spring Val., Scarsdale (NYS); Rye; NYC; **SI; LI:** Brooklyn; Woodhaven; Millneck (NYS). On various trees; Indian corn, etc. (Ds).

EUCLEA Hübner

4816 **E. delphinii** Bdv. Plattsburg; Peru. Je–Jl. The typical form, with varieties *interjecta* Dyar and *viridiclava* Wlk., is rather common southward. Variety *elliotii* Pears. is recorded from Big Ind. Val.; also **LI:** Coney I.; Glendale; Maspeth (Olsen); Wyandanch, Wading R. (Ds). Variety *paenulata* Clem. is reported from NY by Pck. Various trees and shrubs.

PARASA Moore

4813 **P. indetermina** Bdv. New Rochelle (NYS); **SI; LI:** Woodhaven, etc. Feeds on apple and many other trees and shrubs.

4814 **P. chloris** H-S. New Windsor; Rye, Jl (Ds); **SI; LI:** Forest Pk.; Brooklyn.

ADONETA Clemens

4824 **A. spinuloides** H-S. (*leucosigma* Pck.). Albany; New Windsor; **SI: LI:** Pinelawn; Yaphank. Jl–Aug. Various shrubs.

SISYROSEA Grote

4828 **S. textula** H-S. General from Plattsburg southward. Jl–early Aug. Wild cherry and many other shrubs.

NATADA Walker

4830 **N. nasoni** Grt. **LI:** Ronkonkoma; Yaphank. Oak and other trees.

PROLIMACODES Schaus

4827 **P. badia** Wlk. (*scapha* Harr.). BEECHNUT BOX. Grand I., E. Aurora (*Wild*); Geneva; Ithaca; Karner; Florida; Rhinebeck; West Haverstraw (NYS); **SI; LI:** Brooklyn, E. New York, Lynbrook, Newtown, etc. Judging from the larvae seen, the species will prove much more widespread. Jl–Aug. Various trees and shrubs.

COCHLIDION Hübner

4839 **C. biguttata** Pck. Plattsburg; Ithaca; **SI** (Ds); **LI:** Ronkonkoma; Yaphank. Je–Jl. Oak only.

4840 **C. rectilinea** G. & R. Vic. NYC (Bt, G&R). Northern records are perhaps based on *C. latomia.*

4840.1 **C. latomia** Harv. "NY."

4841 **C. y-inversa** Pck. Batavia; Lewiston; Buffalo; Ithaca; Rogers Rock, L. George, *Jones*; Big Ind. Val.; Poughkeepsie; New Windsor; NYC; **SI; LI.** Jl. Hickory and blue beech.

TORTRICIDIA Packard

4852 **T. flexuosa** Grt. E. Aurora and W. Falls (*Wild*); Ithaca; McLean; Debruce; Big Ind. Val.; Onteora Mt.; Ilion; Sharon Sps.; Rhinebeck; Poughkeepsie; Windsor; Bronx Pk.; **LI.** Jl. The dark form, *caesonia* Grt., is known from Big Ind. Val., Coeymans, and Poughkeepsie.

4853 **T. pallida** H-S. Plattsburg; Keene Valley; Ithaca; McLean; Rye; **SI; LI:** Brooklyn; Bellport; Coram, *Kch* (Fbs). Jl. Willow oak and other shrubs.

4854 **T. testacea** Pck. Plattsburg; Saranac L.; Red L.; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Nyack, Aug, Ft. Montgomery, May (Ds); Rye; **SI; LI:** Merrick, Je (Eng). Oak, birch, wild cherry, etc.

HETEROGENEA Knoch

4847 **H. shurtleffi** Pck. Vic. NYC (Eliot, Angus).

LITHACODES Packard

4842 **L. fasciola** H-S. Newport (NYS); Rochester (Angle); Buffalo; S. Wales, E. Aurora (*Wild*); Castile, *Brad*; Geneva; Ithaca; McLean; Rogers Rock, L. George, *Jones*; Schenectady; the southern Catskills; Rye; **SI** (Ds); **LI:** Greenport (Ds); Orient, *Lath.* Jl–Aug. Basswood.

PACKARDIA Grote and Robinson

4843 **P. elegans** Pck. Goat I.; E. Aurora; Ithaca; McLean; Newburgh; New Windsor; Katonah; NYC; **LI.** Je–Jl. On thin, shaded leaves of trees in dense woods.

4845 **P. geminata** Pck. Castile, Je, *Brad* (Fbs); Gowanda, Orchard Pk. (*Wild*); Rye (Bird); **LI:** Forest Pk.; Brooklyn. Je. On very small shrubs only a few inches high, especially on wild cherry.

4846 **P. albipunctata** Pck. Karner; Dutchess Co; Ft. Montgomery, May (Ds).

FAMILY PYROMORPHIDAE

ACOLOITHUS Clemens

4876 **A. falsarius** Clem. Syracuse; Ithaca; Rhinebeck; Crugers; **LI:** Centerport; L. Ronkonkoma. May–Je. Grape and ampelopsis.

PYROMORPHA Herrich-Schaeffer

4867 **P. dimidiata** H-S. Coy Glen, Ithaca; West Pt. (Ds); **SI; LI:** Brooklyn; Pennequid (Eng). End of May–Jl.

HARRISINA Packard

4881 **H. americana** Guér. Troy; Poughkeepsie; **SI.** May–Aug. Grape.

4881.1 **H. texana** Stretch. Poughkeepsie; Ft. Montgomery (Ds); **SI** (Ds); **LI:** Woodhaven; Yaphank; Wading R. (Ds); Orient, *Lath.* Je–Aug. Grape.

FAMILY TINEIDAE

SUBFAMILY ACROLOPHINAE

ACROLOPHUS Poey

8192 **A. arcanellus** Clem. Rhinebeck, Fordham (Dy); **SI,** *Bt* (Dy). Je–Jl. Corn.

8170 **A. plumifrontellus** Clem. Hastings (Grt); Parksville (Bt); **LI:** Forest Pk., *Kch.* Jl.

8195 **A. mora** Grt. Niagara Falls and E. Aurora (*Wild*); **LI:** Woodhaven, Forest Pk., late Sep–Oct, *Kch* (Fbs).

SUBFAMILY TINEINAE

SCARDIA Treitschke

8231 **S. approximatella** Dietz. Lime L. (Wild); Ithaca; McLean. Jl–Aug. The larva has been found in a rotting sycamore log.

8223 **S. anatomella** Grt. Buffalo (*Wild*), Je–Jl.

TINEA Linnaeus

8247 **T. misella** Z. Alexandria Bay, Thousand Isls., Je, *Kch* (Fbs).

8248 **T. obscurostrigella** Cham. McLean. May; Jl–Aug; Oct.

8254 **T. trimaculella** Cham. Otto, Jl.

8249 **T. fuscipunctella** Haw. Ithaca, Jl, a scavenger in birds' nests, *Dobroscky* (Fbs).

8258 **T. pellionella** L. OLD-FASHIONED CLOTHES MOTH. Louisville; Canandaigua; Alfred Center. The larva is one of the clothes moths.

8257 **T. grumella** Z. Ithaca, Aug–Sep.

8271 **T. ophrionella** Dietz. Uphill Br., Mt. Marcy, Je; E. Aurora, Jl, *Wild* (Braun).

8281 **T. tylodes** Meyr. (*arcella* auct.). Riceville, Cattaraugus Co (*Wild*); Ithaca (Dietz,Fbs). Jl. Larva on fungi under bark of dead alder twigs.

8282 **T. auropulvella** Cham. Buffalo (*Wild*); Ithaca; McLean. Je–Aug.

8283 **T. acapnopennella** Clem. E. Aurora, Gowanda, Buffalo, Rock City (*Wild*); Ithaca; Albany. Je-Aug. Larva on *Polyporus tulipiferus.*

8289 **T. granella** L. EUROPEAN GRAIN-MOTH. Batavia; Castile, Je, *Brad* (Fbs); Ithaca; Albany; **LI:** Orient, *Lath.* Aug. Grain, dried fruits, bracket fungi, and similar substances.

TRICHOPHAGA Ragonot

8284 **T. tapetzella** L. CASE-BEARING CLOTHES MOTH. **SI:** New Dorp (Ds). A clothes moth and general scavenger, often breeding in owl pellets.

MONOPIS Hübner

8243 **M. irrorella** Dietz. Otto; Ithaca. Je; Aug.

8241 **M. dorsistrigella** Clem. E. Aurora, Chautauqua L. (*Wild*); Ithaca; **LI:** Sea Cliff. Je–Jl.

8242 **M. crocicapitella** Clem. E. Aurora, Buffalo (Wild); Ithaca; Morrisania, NYC; **SI:** Clove Valley; **LI:** Glendale, *Kch* (Fbs). Jl–Oct. The larva has been bred from seeds of absinth and from refuse.

8238 **M. biflavimaculella** Clem. Peru; Wilmington; E. Aurora (Wild); Castile, *Brad*; Ithaca; McLean; Big Ind. Val. Je–Sep.

8239 **M. marginistrigella** Cham. E. Aurora, Je, *Wild* (Braun).

8237 **M. rusticella** Hbn. Ithaca, probably introduced. May–midsummer; again in autumn.

TINEOLA Herrich-Schaeffer

8298 **T. bisselliella** Hummel. COMMON CLOTHES MOTH. Abundant everywhere. The commonest of the clothes moths.

ISOCORYPHA Dietz

8444 **I. mediostriatella** Clem. E. Aurora, Aug 29, *Wild* (Fbs).

DIACHORISIA Clemens

8307 **D. argentistrigella** Cham. Ithaca, Jl, *Fbs* (Busck).

8312 **D. costisignella** Clem. E. Aurora (*Wild*); Ithaca (Dietz). Je–Jl.

8313 **D. fasciella** Cham. Chautauqua L., Je, *EPV* (Fbs); Ithaca, Jl, *Fbs* (Busck).

CHOROPLECA Walsingham and Durrant

8246 **C. vesaliella** Cham. "NY" (Dietz). Je.

HYBROMA Clemens

8301 **H. servulella** Clem. E. Aurora, *Wild* (Fbs); Ithaca. Je–Aug.

XYLESTHIA Clemens

8234 **X. pruniramiella** Clem. E. Aurora (*Wild*); Ithaca; McLean; West Farms; **LI:** Glendale, *Kch* (Fbs). May–Aug. The larva mines in woody excrescences on plum.

AMYDRIA Clemens

8197 **A. effrenatella** Clem. Ithaca; **LI:** Orient, *Lath.* Je, Aug.

FAMILY PSYCHIDAE

SOLENOBIA Zeller

4809 **S. walshella** Clem. Lockport, *L. M. Downer* (Fbs, Wild); Niagara Falls, *Wild* (Braun); E. Aurora, *Wild* (Fbs); Ithaca; Bronxville (Wood). Ap–May. On lichens on trunks of trees.

EURYCYTTARUS Hampson

4803 **E. confederata** G. & R. Ithaca; New Baltimore; **SI; LI:** Newtown. On low plants.

THYRIDOPTERYX Stephens

4798 **T. ephemeraeformis** Haw. BAG WORM. Geneva (cases); Ft. Edward; New Baltimore; Rye (Bird); Mt. Vernon; Yonkers (CU Econ); NYC; **SI; LI,** general. Introduction attempted, but species not able to survive at Ithaca though a pest on SI and LI. On various trees and shrubs, even arbor vitae and other evergreens, sometimes injurious.

FAMILY TISCHERIIDAE

TISCHERIA Zeller

7873 **T. malifoliella** Clem. APPLE TRUMPET LEAF-MINER. E. Aurora, *Wild* (Fbs); Schenectady; Menands; E. Greenbush; NYC (CU Econ). The larval work is seen throughout the State, but I have seen no other records. May. Apple.

7863 **T. solidaginifoliella** Clem. McLean; Albany. Aug. Solidago.

7861 **T. tinctoriella** Cham. Albany (NYS). Oak.

7857 **T. citrinipennella** Clem. Crosby; Ithaca. Aug. Oak.

7859 **T. albotraminea** Wlsm. "NY" (type), Aug. White oak.

7876 **T. zelleriella** Clem. OAK TRUMPET LEAF-MINER. "NY" (HEdw). Mar–Ap. Oak.

FAMILY LYONETIIDAE

BEDELLIA Stainton

8120 **B. somnulentella** Z. NYC (Lint). Aug; mid-Sep to spring. Ipomoea.

PHYLLOCNISTIS Zeller

8110 **P. populiella** Cham. Hemlock L. (bred). Aspen and other poplars.

8111 **P. vitifoliella** Cham. "NY" (Bt). Grape.

8112 **P. vitigenella** Clem. E. Aurora (*Wild*). May; Oct.

BUCCULATRIX Zeller: THE RIBBED-COCOON MAKERS

8133 **B. niveella** Cham. Rock City.

—— **B. errans** Braun. var. McLean, Jl 30.

8141 **B. ainsliella** Murt. Ithaca, Aug (Fbs). Oak.

8135 **B. pomifoliella** Clem. RIBBED-COCOON MAKER OF THE APPLE. Common everywhere in NY. Je. Apple.

8125 **B. canadensisella** Cham. BIRCH LEAF-SKELETONIZER. Ogdensburg; L. Placid; Ausable Forks; Keene; Scottsville; Protection (Wild); Ithaca; Albany; Karner; Kinderhook; **SI.** Je–Jl. White birch.

8153 **B. crescentella** Braun. Otto; Florida. Jl. Aster, Solidago, and Erigeron.

8139 **B. trifasciella** Clem. E. Aurora, May, *Wild* (Braun).

—— **B. cuneigera** Meyr. E. Aurora, Jl, *Wild* (Braun).

—— **B. fusicola** Braun. E. Aurora, Jl, *Wild* (Braun).

PHILONOME Chambers

8101 **P. clemensella** Cham. "NY" (Bt). Jl. Hickory and linden.

FAMILY OPOSTEGIDAE

OPOSTEGA Zeller

8419 **O. albogaleriella** Clem. Otto; Geneva; McLean. Jl–Aug. Bast miner on gooseberry and on red and black currant.

O. albogaleriella var. **quadristrigella** Cham. McLean, Jl (Fbs).

FAMILY GRACILARIIDAE

PARORNIX Spuler

(*Ornix*)

8023 **P. inusitatumella** Cham. E. Aurora, May–Je (*Wild*).

8013 **P. guttea** Haw. E. Aurora, Je (*Wild*).

8018 **P. crataegifoliella** Clem. E. Aurora, Jl (Wild). Cherry.

GRACILARIA Haworth

8041 **G. sassafrasella** Cham. Ithaca, Jl–Aug. Sassafras.

8042 **G. rhoifoliella** Cham. E. Aurora; Ithaca; McLean. Jl–Aug. *Rhus toxicodendron* and *R. copallina.*

—— **G. elongella** L. Cranberry L., *Htly* (Fbs); Wilmington; Mt. Whiteface; McLean. Alder; wild cherry (Htly).

G. pulchella Cham. Lancaster, Sep (*Wild*); Cranberry L., *Htly* (Bsk). Yellow birch.

8057 **G. burgessiella** Z. Ithaca; McLean. Jl–Aug. Cornus.

8066 **G. cornusella** Ely. Buffalo (*Wild*); Ithaca. Ap; Aug. Cornus.

8065 **G. bimaculatella** Ely. Lancaster, Rock City (*Wild*); Ithaca. Red and soft maple.

8059 **G. packardella** Cham. E. Aurora (*Wild*); Ithaca. Jl–Aug. Sugar maple.

8061 **G. purpuriella** Cham. Buffalo, E. Aurora, *Wild*; Ithaca; **LI:** Forest Pk., Aug, *Kch* (Fbs). Aug; Oct–Ap. Willow and poplar.

8040 **G. negundella** Cham. E. Aurora, *Wild* (Braun); Ithaca. Jl–Aug; Oct–early spring. *Acer negundo.*

8056 **G. azaleella** Brants. (*azaleae* Bsk.). AZALEA LEAF-ROLLER. Rochester; Lockport (NYS); Yonkers. Evergreen azaleas.

8054 **G. superbifrontella** Clem. West Falls (*Wild*); Crosby; Ithaca. May–Sep. Hamamelis.

8071 **G. fraxinella** Ely (*Coriscium*). Ithaca, Jl–Sep, May (the latter were doubtless specimens which had emerged in the preceding fall). Ash and apple.

8010 **G. serotinella** Ely (*Parectopa*). Ithaca, Jl–early Sep. *Prunus serotina.*

ACROCERCOPS Wallengren

7997 **A. strigifinitella** Clem. Hamburg; Gowanda, E. Aurora, *Wild* (Fbs). Je. Breeds continually all summer. Chestnut, chinquapin, oak, and beech.

8001 **A. astericola** Frey & Boll. Castile, Je, *Brad* (Fbs); Ithaca, May–Aug. *Aster corymbosus*, etc.

7993 **A. albinotella** Cham. "NY" (Bt). Ap–Je; Aug. Oak.

7991 **A. venustella** Clem. Ithaca, Aug 30. Late Jl–Sep. Eupatorium.

MARMARA Clemens

8033 **M. elotella** Bsk. Larval work has been seen in this State under bark of apple twigs and under skin of fruit. The species is apparently rather widely distributed in the apple belt of western NY, and possibly to a somewhat lesser extent in that of the Hudson R.

PARECTOPA Clemens

8011 **P. salicifoliella** Cham. Lancaster, Sep, *Wild* (Braun).
8003 **P. robiniella** Clem. Ithaca (mines not rare). In a digitate mine on locust.
8006 **P. pennsylvaniella** Engel. Castile, Je, *Brad* (Fbs); Ithaca; McLean. May–Oct. *Aster cordifolius.*
8000 **P. plantaginisella** Cham. E. Aurora, *Wild* (Braun). Jl. Fleabane (Wild).

CREMASTOBOMYCIA Braun

7974 **C. ignota** Frey & Boll. Salamanca, Jl (Wild). Compositae.

LITHOCOLLETIS Hübner

7877 **L. fitchella** Clem. Albany. Oak.
7885 **L. argentifimbriella** Clem. Ithaca, Aug. Oak, especially white oak.
7886 **L. lucidicostella** Clem. Buffalo, May (Wild). Sugar maple.
7879 **L. hageni** Frey & Boll. Buffalo, May (*Wild*). Oak.
7891 **L. ostryaefoliella** Clem. Ithaca, Aug; E. Aurora, Buffalo, May (Wild). Hop hornbeam.
7898 **L. propinquinella** Braun. E. Aurora, May (*Wild*). *Prunus serotina.*
7899 **L. crataegella** Clem. "NY" (Bt). Rosaceae.
7932 **L. salicifoliella** Clem. Buffalo (Wild); Ithaca. Aug–Sep. Poplar and willow.
7917 **L. morrisella** Fitch. Delmar (NYS). Amphicarpa.
7915 **L. robiniella** Clem. Ithaca (CU). Locust.
7902 **L. argentinotella** Clem. Buffalo, *Wild* (Braun). Elm.
7894 **L. basistrigella** Clem. E. Aurora, Buffalo, Ap (*Wild*). Oak.
7920 **L. lucetiella** Clem. E. Aurora, Jl; Ithaca, Aug. Basswood.
7969 **L. desmodiella** Clem. Big Ind. Val. Desmodium, etc.
7923 **L. ostensackenella** Fitch. E. Aurora, Jl (Wild). Locust (*Robinia Pseudo-Acacia*).
7924 **L. tritaenianella** Cham. Buffalo, May. Hop hornbeam.
7928 **L. fragilella** Frey & Boll. HONEYSUCKLE LEAF-MINER. Honeoye Falls, *Leon* (Braun). Honeysuckle.
7921 **L. tiliacella** Cham. Ithaca, Aug. Basswood.
7942 **L. hamadryadella** Clem. WHITE-BLOTCH OAK LEAF-MINER. Syracuse (NYS); Buffalo, Grand I., Niagara Falls, May–Jl (*Wild*); Ithaca, Aug; Albany; New Hamburg, Crugers I., Coeymans, Goshen, Garrison, Sloatsburg, Mt. Vernon (NYS); **LI:** Forest Pk., May, *Kch* (Fbs). Oak, especially *Quercus alba,* and rarely, perhaps accidentally, on Magnolia and Ostrya.
7941 **L. cincinnatiella** Cham. New Baltimore (NYS).
7938 **L. lentella** Braun. E. Aurora, May (*Wild*); Ithaca, Jl–Aug. Birch and hop hornbeam.
7951 **L. cervina** Wlsm. "NY" (type).
7961 **L. guttifinitella** Clem. Buffalo, Jl (*Wild*). Poison ivy.
7962 **L. obstrictella** Clem. E. Aurora, Jl (Wild). Poison ivy.

7964 **L. aesculisella** Cham. S. Wales; Gowanda, Je–Jl (*Wild*). Buckeye.

7966 **L. aceriella** Clem. S. Wales (Wild); Ithaca, Jl. Maple, most commonly red maple.

7965 **L. ostryarella** Cham. E. Aurora, Jl (*Wild*). Ironwoods.

FAMILY COLEOPHORIDAE

COLEOPHORA Hübner: THE CASE-BEARERS

7757 **C. cerasivorella** Pck. E. Aurora, Chautauqua L., Tonawanda (Wild). Je–Jl. Wild cherry.

7768 **C. fletcherella** Fern. CIGAR CASE-BEARER. Buffalo, E. Aurora, Je–Jl (Wild); Chautauqua Co (CU Econ); Oswego Co; S. Byron; Monroe Co; Albion (Felt); Geneva; Ithaca; Albany. Je–Jl (Wild). Apple, pear, and hawthorn (Wild).

7775 **C. laricella** Hbn. LARCH CASE-BEARER. E. Aurora, May–Je (Wild); Ithaca; Karner; Albany. Larch.

7802 **C. unicolorella** Cham. Buffalo and E. Aurora, May–Je (Wild). Juncus.

7785 **C. pruniella** Clem. Orchard Pk., Oct (Wild).

7759 **C. cinerella** Cham. Cranberry L., *Htly* (Bsk).

7762 **C. coruscipennella** Clem. E. Aurora, Gowanda (Wild); Ithaca; McLean; **LI:** Forest Pk., Glendale, *Kch* (Fbs). May–Aug.

—— **C. spissicornis** Haw. "NY". Reported by Zeller, no doubt in error for *coruscipennella*. Clover.

7792 **C. rosacella** Clem. E. Aurora, Je (Wild). Rose.

7754 **C. albiantennaella** Wild. Buffalo, Je–Jl (Wild). Dogwood.

7751 **C. caryaefoliella** Clem. E. Aurora; Ithaca. Je–Jl. Hickory and pecan.

7788 **C. ostryae** Clem. E. Aurora, Je (Wild). Hornbeam.

7776 **C. limosipennella** Dup. (*laticornella* Clem.). Cranberry L., *Htly* (Bsk); E. Aurora, Jl (Wild); Ithaca; Karner; NYC; **LI:** Oyster Bay, Oakdale (Felt); Brooklyn (Bsk). Elm; hickory (Wild).

7764 **C. cratipennella** Clem. E. Aurora, Gowanda, May–Jl (Wild).

7758 **C. caespititiella** Z. **LI:** Coney I.; Flatbush, New Lots (Zab). Seeds of Juncus.

7803 **C. vernoniaëlla** Cham. McLean, Je–Jl. Vernonia and Helianthus.

7769 7778 **C. fagicosticella** Cham. (*lineapulvella* Cham.). E. Aurora, Gowanda (Wild). Je–Jl. Chestnut (Wild).

7811 **C. vagans** Wlsm. "NY" (type). Aug. Grass.

7777 **C. leucochrysella** Clem. Gowanda, *Wild*. Je. Chestnut.

7800 **C. tiliaefoliella** Clem. E. Aurora, Gowanda, Buffalo, *Wild*; Ithaca, Jl. Je–Jl. Basswood (Wild); linden.

7781 **C. malivorella** Rly. PISTOL CASE-BEARER. Walworth; Orleans Co; S. Byron; Geneva; Lansing. Early Jl. Apple.

7791 **C. querciella** Clem. Albany; **LI** (Hein). Je. Oak.

—— **C. atlantica** Hein. E. Aurora, Je–Jl (Wild). Wild cherry.

FAMILY CYCNODIIDAE

(*Elachistidae*)

APHELOSETIA Stephens

(*Elachista*)

7827 **A. orestella** Bsk. Peru; Perry; E. Aurora (*Wild*); Ithaca; McLean. May–Sep. Hystrix.

—— **A. cucullata** Braun. Ithaca, May – early Je. *Carex jamesii.*

7844 **A. albicapitella** Engel. E. Aurora, Je (Wild).

—— **A. n. sp.** near **trapeziella.** Buffalo, Jl, *Wild.*

FAMILY DOUGLASIIDAE

TINAGMA Zeller

7848 **T. obscurofasciella** Cham. Black Br.; Rock City. May.

FAMILY HELIOZELIDAE

ANTISPILA Hübner

7581 **A. hydrangiaeella** Cham. West Falls, Jl, *Wild* (Fbs).

7578 **A. ampelopsiella** Cham. Ft. Edward, Aug. Ampelopsis.

7583 **A. nyssaefoliella** Clem. Buffalo, E. Aurora, Gowanda (*Wild*); Mohonk L. (larvae); Glens Falls; NYC (Lint); **LI:** Orient, *Lath* (NYS). May and Je.

7582 **A. isabella** Clem. Buffalo, Jl, E. Aurora, Je, *Wild* (Fbs).

COPTODISCA Walsingham

7595 **C. splendoriferella** Clem. RESPLENDENT SHIELD-BEARER. Ithaca; E. Greenbush; Albany; Fishkill. Crataegus, wild cherry, and apple.

FAMILY ŒCOPHORIDAE

MARTYRINGA Busck

6412 **M. latipennis** Wlsm. Ithaca, Jl–Aug.

EUMEYRICKIA Busck

6414 **E. trimaculella** Fitch. Upper Ausable L.; Keene (*Wild*); E. Aurora, Salamanca (*Wild*). Je–Jl.

GERDANA Busck

6416 **G. carietella** Bsk. E. Aurora, *Wild* (Braun); Ithaca; McLean. Jl–Aug.

CRYPTOLECHIA Zeller

6424 **C. tentoriferella** Clem. Potsdam; Rochester (Angle); E. Aurora (Wild); Ithaca; McLean; Big Ind. Val.; Schenectady; Karner; Rhinebeck; New Windsor; NYC; **SI; LI:** Glendale, Woodhaven, *Kch* (Fbs); Orient (Lath). Late Aug–Oct. Oak, cherry, maple (?), chestnut, etc.

PSILOCORSIS Clemens

6425 **P. quercicella** Clem. Buffalo, Salamanca (*Wild*); New Windsor, *Morton*. Mar–Ap; Jl. Oak and chestnut.

6426 **P. obsoletella** Z. Ithaca. Oak and chestnut.

6427 **P. reflexella** Clem. Ithaca; McLean. Je–Jl. Oak.

6430 **P. ferruginosa** Z. Otto.

AGONOPTERYX Hübner

(*Depressaria,* in part)

6433 **A. atrodorsella** Clem. Fentons; E. Aurora, Buffalo (*Wild*); Crosby; Castile, *Brad*; Ithaca; McLean; Gloversville (Alex); Delmar; Schenectady; New Windsor; **SI.** Sep–Je. Bidens.

6437 **A. canella** Bsk. Wilmington; E. Aurora, *Wild* (Fbs); Catskills. Jl–Sep. The related European species, *alstroemeriana,* feeds on Conium.

6449 **A. pulvipennella** Clem. Fentons; E. Aurora, Lancaster, Riceville (*Wild*); Ilion; Crosby; Ithaca; McLean; Schenectady; **LI:** Orient, *Lath* (NYS). Sep–May; Jl. Eupatorium and Solidago.

6459 **A. argillacea** Wlsm. E. Aurora, *Wild* (Fbs); Ithaca. Mar; Sep. This species is the American representative of *yeatiana,* which eats Umbelliferae.

6447 **A. applana clemensella** Cham. E. Aurora (*Wild*); Ithaca; New Windsor. Aug–Ap. Parsnip and wild parsnip (Heracleum).

6443 **A. walsinghamella** Bsk. Albany. Myrica.

6456 **A. plummerella** Bsk. Rock City.

—— **A. n. sp.** Ithaca, Ap.

6445 **A. curvilineella** Bt. E. Aurora (*Wild*); NYC. Oct–Ap.

6468 **A. lythrella** Wlsm. McLean, Jl–Aug. *Lythrum alatum.*

6463 **A. flavicomella** Engel. Ithaca, Je–Jl.

6471 **A. robiniella** Pck. E. Aurora (*Wild*); Schenectady; Bridgetown; Rhinebeck; Crugers; Katonah. Jl. Robinia.

6472 **A. lecontella** Clem. Ithaca; Schenectady; New Windsor; **LI:** Sea Cliff; Glendale, Sep, *Kch* (Fbs); Orient, *Lath.*

6489 **A. allenella** Wlsm. (*Semioscopis*). Keene, E. Aurora (*Wild*); McLean; Rhinebeck; **LI:** Cold Sp., *Kch* (Fbs). Je–Jl. Oak.

DEPRESSARIA Haworth

6479 **D. groteella** Robn. "NY" (Robn). Corylus.

6482 **D. cinereocostella** Clem. "NY" (Bsk). Jl. Water parsnip (Sium) and caraway.

6480 **D. betulella** Bsk. Ithaca, Aug (Fbs).

6478 **D. heracliana** DeG. PARSNIP WEBWORM. E. Aurora, Irving (Wild); Bath (CU Econ); Crosby; Ithaca; Albany; Greenville (NYS); Rhinebeck; New Windsor; West Farms; **LI:** Orient, *Lath* (NYS). Je–Jl. Wild parsnip (Heracleum) and other Umbelliferae.

6473 **D. emeritella alienella** Bsk. Ilion. Artemisia.

INGA Busck

6483 **I. sparsiciliella** Clem. West Farms, May–Je.

SEMIOSCOPIS Hübner

6488 **S. inornata** Wlsm. Ithaca; Karner.
6487 **S. megamicrella** Dyar. Ithaca; **LI:** E. New York. Ap–May.
6485 **S. merriccella** Dyar. Albany; Big Ind. Val. May.
6486 **S. aurorella** Dyar. Ithaca; Big Ind. Val.
6484 **S. packardella** Clem. E. Aurora (*Wild*); Ithaca; Big Ind. Val.; Albany. Ap–Je.

ETHMIA Hübner

6642 **E. longimaculella** Cham. Plattsburg; Ithaca. May; Jl. Lithospermum.

SCHIFFERMUELLERIA Hübner

6490 **S. argenticinctella** Clem. Grand I., Rock City (Wild); Ithaca; McLean; Rhinebeck; NYC. End Je–Aug. Under bark of elder.
—— **S. formosella** Schiff. **LI:** Forest Pk., Aug 31, 1921, Jl 17, 1923, *Kch* (Fbs). Heretofore known only from Europe, where the larva lives under bark of poplar.

FABIOLA Busck

6498 **F. shaleriella** Cham. Salamanca, Jl (*Wild*).

DECANTHA Busck

6497 **D. borkhausenii** Z. (*boreasella* Cham.). Ithaca, Je–Jl. Under bark of pine.

ŒCOPHORA Latreille

6499 **Œ. newmanella** Clem. N. Elba; Batavia; E. Aurora, Gowanda (*Wild*); Rock City; Portage; Ithaca; Trenton Falls; Albany; New Windsor. Je.

BORKHAUSENIA Hübner

6505 **B. ascriptella** Bsk. Ithaca; McLean. Je–Aug.

FAMILY XYLORICTIDAE

STENOMA Zeller

6606 **S. schlaegeri** Z. Mt. Marcy; Thousand Isls., *Kch*; E. Aurora (*Wild*); Rock City; Castile, Je (Fbs); Ithaca; McLean; Big Ind. Val.; Bethlehem; New Windsor. May–Je. Oak.
6609 **S. algidella** Wlk. (*leucillana* auct.). Buffalo (*Wild*); Rock City; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Ft. Montgomery. Je–Aug. The caterpillar is common on maple and on various trees and shrubs, and has been found boring in an apple.
6614 **S. querciella** Bsk. Ithaca, Jl 24 (Fbs); **LI:** Coram, Jl 17, *Kch* (Fbs).

MENESTA Clemens

6397 **M. albaciliaeella** Cham. Peru (Fbs); Protection, *Wild* (Fbs). Early spring–Je; Jl. Blackberry.

FAMILY GELECHIIDAE

GELECHIA Hübner

6208 **G. trialbamaculella** Cham. "NY" (Bt); late Jl–early Aug. The caterpillar is found on many shrubs, such as locust, oak, Comptonia, Epigaea, and Vaccinium.

—— **G. psiloptera** Barnes & Bsk. var. Peru.

6211 **G. continuella** Z. L. Tear; Ithaca. Jl–Sep.

6245 **G. discoocellella** Cham. E. Aurora, Je (*Wild*); Ithaca, Jl (Fbs); **LI:** Forest Pk., Aug 20, *Kch* (Fbs).

6236 **G. fluvialella** Bsk. Peru; Allegany Pk. (Wild); Rock City; Ithaca, *Fbs* (Bsk). Je–Jl.

6247 **G. anarsiella** Cham. var. E. Aurora, Jl, *Wild* (Fbs). Wild cherry.

6253 **G. albisparsella** Cham. Ithaca.

6249 **G. inquilinella** Bsk. Karner. Spring. Larva inquiline in *Rhabdophaga brassicoides* gall on Salix.

6263 **G. versutella** Z. E. Aurora, Jl, *Wild* (Braun).

6265 **G. bicostomaculella** Cham. Keene, Buffalo, E. Aurora, May–Je (Wild). Black oak.

6268 **G. maculimarginella** Cham. Cranberry L., *Htly* (Bsk); Buffalo (*Wild*); Salamanca, E. Aurora (*Wild*); Ithaca. Je–Jl. Ash.

6269 **G. biminimaculella** Cham. E. Aurora, Buffalo, Jl (Wild).

6275 **G. vernella** Murt. Ithaca, Jl. Laurel oak.

6266 **G. nigrimaculella** Bsk. Lancaster, *EPV* (Fbs); Ithaca. Late Jl–early Oct.

6289 **G. gilvomaculella** Clem. E. Aurora; Ithaca. Jl. Oak.

6279 **G. fondella** Bsk. E. Aurora, Je (*Wild*).

6296 **G. pseudofondella** Bsk. Ithaca. Je–Jl.

6278 **G. mediofuscella** Clem. Peru; Amherst, E. Aurora, Gowanda (*Wild*); Rock City; Crosby; Potter Swamp; McLean. Early spring; Jl. In seeds of *Ambrosia trifida.*

6280 **G. walsinghami** Dietz. Ithaca. May–Jl.

—— **G. arenella** Fbs. **LI:** Rockaway Beach. May–Aug.

6295 **G. branella** Bsk. Ithaca, Jl, 1924 (Fbs).

GNORIMOSCHEMA Busck

6122 **G. gallaesolidaginis** Rly. GOLDENROD GALL. Canandaigua (NYS); vic. Buffalo; Ithaca; McLean; Big Ind. Val.; Albany; **LI:** Richmond Hill. End Aug–Sep. In stems of goldenrod, forming a fusiform gall.

6126 **G. gallaeasteriella** Kell. E. Aurora, Protection, Aug–Sep (Wild).

6109 **G. banksiella** Bsk. Essex Co; Rochester (NYS); Batavia; E. Aurora; Otto; Ithaca; McLean; **LI:** Sea Cliff. Jl–Aug. Solidago.

6117 **G. batanella** Bsk. E. Aurora, Buffalo, Je (*Wild*).

6119.1 **G. chenopodiella** Bsk. Ithaca, Je, *Chap* (Fbs). Chenopodium.

ANACAMPSIS Curtis

6188 **A. innocuella** Z. Orchard Pk., Gowanda (*Wild*); Ithaca; Ilion; Pearl R.; **LI:** Cold Sp. Harb. Jl. Poplar.

6189 **A. rhoifructella** Clem. E. Aurora, Buffalo (*Wild*); West Farms; **LI:** Forest Pk., *Kch* (Fbs). May–Aug. Sumac; viburnum; spicebush, blackberry, and poplar (Wild).

6199 **A. agrimoniella** Clem. Otto; E. Aurora, Je–Jl (Wild); Taughannock Falls; McLean; **LI:** Sea Cliff. Agrimony.

6195 **A. nonstrigella** Bsk. E. Aurora, Je–Jl. Hop hornbeam (Wild).

6200 **A. tristrigella** Wlsm. E. Aurora, Jl, *Wild* (Fbs). Corylus; ironwood (Wild).

ANARSIA Zeller

6353 **A. lineatella** Z. PEACH BUD-MOTH. Rochester; Lockport; Clifton; Ithaca; Jordan Station; Schoharie; Coxsackie, Blauvelt (NYS). Peach and plum.

TRICHOTAPHE Clemens

6355 **T. flavocostella** Clem. Rochester (Angle); Buffalo, E. Aurora (*Wild*); Ithaca; Ilion; Big Ind. Val.; Poughkeepsie; New Windsor; NYC. Je–Jl. Solidago and Helianthus.

6356 **T. inserrata** Wlsm. Buffalo, Je (Wild).

6361 **T. alacella** Clem. Buffalo, E. Aurora (*Wild*); Ithaca; **LI:** Sea Cliff. Je–Jl. Solidago (*Wild*).

6363 **T. nonstrigella** Cham. Keene, Je (*Wild*).

6364 **T. juncidella** Clem. E. Aurora, *Wild* (Fbs); Ithaca; McLean; Rhinebeck. Je–Sep. Solidago, Aster, Artemisia, and other Compositae.

6365 **T. trinotella** Bsk. Ithaca (Fbs); Colden, *EPV* (Fbs).

6366 **T. leuconotella** Bsk. E. Aurora (Bsk).

6368 **T. levisella** Fyles (*washingtoniella* Bsk.). Ithaca. Je; Aug. Aster.

6376 **T. fernaldella** Bsk. Peru, Je.

6367 **T. setosella** Clem. Ithaca; **LI:** Sea Cliff. Jl–Aug.

DICHOMERIS Hübner

(*Ypsolophus*)

6380 **D. ligulella** Hbn. (*pometella* Harr.). PALMER WORM. Buffalo, E. Aurora, Randolph (Wild); Geneva; Rock City; Ithaca; Byron; Albany. May–Jl. Apple, oak, azalea, and nettle; often injurious on apple.

6378 **D. punctidiscella** Clem. E. Aurora, Irving (Wild); Ithaca; Taughannock Falls; McLean. End of May – Jl.

6389 **D. ventrella** Fitch (?*georgiella* Wlk.). "NY" (Fitch); Gowanda (*Wild*).

6379 **D. eupatoriella** Cham. E. Aurora, Je (*Wild*); Crosby. May–Jl; late Sep. *Eupatorium ageratoides* and Vernonia.

—— **D. marginella** Fab. JUNIPER WEBWORM. Ithaca; Tarrytown; NYC (NYS); **LI:** Westbury (NYS); Plandome. Aug. *Juniperus communis.*

GLYPHIDOCERA Walsingham

6408 **G. meyrickella** Bsk. Ithaca.
—— **G. (Sceptea) n.sp.** Ithaca (Fbs).

ANORTHOSIA Clemens

6351 **A. punctipennella** Clem. Taughannock Falls; Ithaca; McLean. Je–Aug.

STROBISIA Clemens

6398 **S. emblemella** Clem. Rock City; Taughannock Falls. Je – early Jl. Caterpillar possibly on buckeye.
6399 **S. irridipennella** Clem. In Robinson Coll. (presumably from NY). Je–Aug.

DUVITA Busck

6184 **D. vittella** Bsk. **LI.** Larva in "stunted cones" of Scotch and Austrian pine, and in "cecidomyid gall" on *Pinus taeda.*
6185 **D. nigratomella** Clem. Rock City; Ithaca. May–Jl.
6186 **D. concinusella** Cham. E. Aurora, Jl (*Wild*); Rock City.
—— **D. tahavusella** Fbs. Uphill Br., Mt. Marcy; Peru. Je – early Jl.
—— **D. n.sp.** near **tahavusella.** Ithaca (Fbs).
6283 **D. conclusella** Wlk. E. Aurora, Protection (*Wild*); Peru; Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean. Je–Aug.

PARALECHIA Busck

6166 **P. pinifoliella** Cham. PINE LEAF-MINER. Round L.; Ithaca; Karner. Je–Jl. Leaf-miner in pine needles.

AROGALEA Walsingham

6167 **A. cristifasciella** Cham. Crosby; Ithaca, *Babiy* (Fbs); **LI:** Forest Pk., *Kch* (Fbs). Ap; Jl. Oak.

TELPHUSA Chambers

6071 **T. longifasciella** Cham. E. Aurora; Crosby; Ithaca. Ap–May.
6074 **T. latifasciella** Cham. **LI:** Forest Pk., Jl 4, 1920, *Kch* (Fbs).
6080 **T. basifasciella** Z. Grand I., Buffalo (*Wild*); Ithaca (Fbs). Late May–Jl.
6075 **T. quercinigracella** Cham. Ithaca, Jl; **LI:** Forest Pk., Je, *Kch* (Fbs). Blackjack and other oaks.
6078 **T. querciella** Cham. E. Aurora, *Wild* (Fbs).
6077 **T. palliderosacella** Cham. Orchard Pk., West Falls (Wild); Rock City. Oak.
6083 **T. belangerella** Cham. Keene, Je, *Wild* (Fbs); E. Aurora, May, *Wild* (Fbs).

GLAUCE Chambers

6040 **G. pectenalaeella** Cham. Rock City; McLean. Jl–Aug.

ARISTOTELIA Hübner

6041 **A. roseosuffusella** Clem. E. Aurora, Gowanda, Protection (Wild); Ithaca; McLean; **LI:** Glendale, *Kch* (Fbs). May–Oct; commonest in Jl and Aug.

6042 **A. pudibundella** Z. Rock City, Jl.

6052 **A. absconditella** Wlk. E. Aurora, Jl (Wild); Lockport, Scotia, Albany (Felt). Sep.

6058 **A. quinquepunctella** Bsk. E. Aurora, Je, *Wild* (Braun); Ithaca, Jl (Fbs).

ENCHRYSA Zeller

6067 **E. dissectella** Z. Wells (NYS); Rock City (Wild).

CHRYSOPORA Clemens

6069 **C. hermannella** Fab. Ithaca. Chenopodium (Sling).

RECURVARIA Haworth

6135 **R. apicitripunctella** Clem. Wells; Ithaca (abundant). Je–Jl. Hemlock.

6136 **R. variella** Cham. Yonkers, Je–Jl. Bald cypress, and evidently other trees.

6141 **R. thujaëlla** Kf. **LI:** Westbury; Hicksville (NYS). Je. Thuja.

6138 **R. piceaëlla** Kf. E. Aurora, Hamburg, Je–Jl (Wild); Scarsdale (NYS). Hemlock.

6156 **R. gibsonella** Kf. Ithaca, Je – early Jl. Juniper.

6143 **R. crataegella** Bsk. E. Aurora; Batavia; Albany. May–Jl. Crataegus.

EUCORDYLEA Dietz

6065 **E. atrupictella** Dietz. Ithaca, Aug–Sep 5.

EPITHECTIS Meyrick

6160 **E. attributella** Wlk. E. Aurora, Salamanca (*Wild*); Ithaca; McLean; Bronx Pk. (Wild). Jl–Aug.

6162 **E. sylvicolella** Bsk. E. Aurora, May, *Wild* (Fbs).

EVIPPE Chambers

6062 **E. prunifoliella** Cham. McLean, May–Jl. Plum and peach; rarely on soft maple.

6063 **E. leuconota** Z. Has been reported from Albany.

SITOTROGA Heinemann

6038 **S. cerealella** Oliv. ANGOUMOIS GRAIN MOTH. Undoubtedly distributed throughout the warmer parts of the State, definite localities being: Geneva; Ithaca; Albany; Poughkeepsie; **LI:** Smithtown. Aug. In stored grain.

PTYCERATA Ely

6035 **P. busckiella** Ely. Ithaca, Je 30, *Fbs* (Bsk).

METZNERIA Zeller

6021 **M. lappella** L. BURDOCK MOTH; TRIPLE-SPOTTED YELLOW. Peru; Newcomb; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Rochester (NYS); E. Aurora, Irving (*Wild*); Lewistown; Castile, *Brad*; Ithaca; McLean; Katonah. May–Aug. In burs of burdock.

HELICE Chambers

5972 **H. constrictella** Z. Buffalo, Je (*Wild*); also Sep. Elm.

FAMILY BLASTOBASIDAE

EURESIA Dietz

6528 **E. pulchella** Dietz. Salamanca (*Wild*); Ithaca, Jl–Aug 5 (Fbs).

VALENTINIA Walsingham

6520 **V. glandulella** Rly. ACORN MOTH. Ithaca, Jl. In acorns.
6522 **V. quaintancella** Dietz. Ithaca, Jl. Larva in mummy apples.

HOLCOCERA Clemens (restricted)[63]

6531 **H. dives** Dietz. Ithaca, Jl.
6532 **H. aphidiella** Wlsm. Rock City; Ithaca. Jl. In Phylloxera gall on hickory.
6541 **H. confluentella** Dietz. Ithaca, Je–Jl. On pitch pine.
6536 **H. purpurocomella** Clem. Rock City; Vandalia. Je.
6540 **H. chalcofrontella** Clem. Ithaca, Jl. Larva in sumac heads.
—— **H. n. sp.** near **villella** Bsk. Ithaca (Fbs).
6549 **H. funebra** Dietz. Rock City, May–Jl.
6555 **H. elyella** Dietz. Ithaca, Jl–Aug.
6539 **H. modestella** Clem. E. Aurora, May–Je (*Wild*). Red oak (Wild).

BLASTOBASIS Zeller

6513 ?**B. plummerella** Dietz. Rock City, Jl.
6514 **B. sagittella** Dietz. Rock City, Aug.

PLOIOPHORA Dietz

6578 **P. fidella** Dietz. Rock City, Je; Ithaca (Fbs).

PIGRITIA Clemens

6580 **P. purpurella** Dietz. Rock City, Je.

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[63] All determinations in this genus are tentative (Fbs).

FAMILY LAVERNIDAE

LAVERNA Curtis

6006 **L. brevivittella** Clem. Ithaca; Albany. Oct. In seed capsules of Oenothera.
6007 **L. stellella** Bsk. E. Aurora, Je–Sep, *Wild* (Braun).
—— **L. n. sp.** Ithaca, Oct–Ap (Fbs).
6018 **L. decorella** Steph. (*unifasciella* Cham.). Ithaca (Fbs). Aug–Sep. Stem gall on Epilobium.

LYMNAECIA Stainton

5989 **L. phragmitella** Stt. CATTAIL MOTH. Lewiston; E. Aurora, Irving (*Wild*); Ithaca; McLean (larval work). May–Jl. Cattail.

WALSHIA Clemens

5985 **W. amorphella** Clem. Ithaca. May; Jl. *Amorpha fruticosa.*

STILBOSIS Clemens

5984 **S. tesquella** Clem. Irving, *Wild* (Fbs); Ithaca; **LI:** Sea Cliff. May–Jl; Aug. Lespedeza.

LOPHOPTILUS Sircom

5990 **L. tricristatella** Cham. Uphill Br., Mt. Marcy. May–Je.
6008 **L. eloisella** Clem. E. Aurora, *Wild* (Braun); Ithaca, Je; **LI:** Forest Pk., Jl, *Kch* (Fbs). Stems of Oenothera.
5994 **L. passerella** Bsk. NYC (Wat).

PSACAPHORA Herrich-Schaeffer

5998 **P. luciferella** Clem. "NY" (Clem).
5996 **P. terminella engelella** Bsk. E. Aurora, Jamestown (*Wild*); Rock City; Castile, Je, *Brad* (Fbs); Hemlock L.; McLean. May; Je. *Circaea lutetiana.*
—— **P. n. sp.** E. Aurora, *Wild.*

PERIMEDE Chambers

5987 **P. erransella** Cham. Ithaca; McLean. Jl–Aug.
—— **P. falcata** Braun. Ithaca, Je–Jl.

BLASTODACNA Wocke

5986 **B. curvilineella** Cham. Ithaca (Wellhouse). The moth emerges in spring. In berries of Crataegus.

BATRACHEDRA Stainton

7821 **B. salicipomonella** Clem. Larva at Ithaca. Inquiline in willow galls, especially the sawfly gall on the leaves.

COSMOPTERYX Hübner

5966 **C. fernaldella** Wlsm. McLean, Jl.
5957 **C. clemensella** Stt. "NY" (US). Ipomoea.
5958 **C. gemmiferella** Clem. E. Aurora, *Wild* (Braun); **LI:** Sea Cliff (Bsk). Je–Jl. Ipomoea.
—— **C. magophila** Meyr. Ithaca, Aug.

FAMILY YPONOMEUTIDAE

YPONOMEUTA Latreille

7723 **Y. multipunctella** Clem. E. Aurora, Je, basswood (*Wild*); Ithaca, late Jl–early Aug (Fbs). Evonymus.
7728 **Y. padella** L. APPLE ERMINE MOTH. Introduced on nursery stock in a number of localities in the vicinity of Geneva and Rochester and at Schoharie, but now exterminated. Apple and other trees of Rosaceae.

ATTEVA Walker

7731 **A. punctella** Cram. (*aurea* Fitch). **LI:** Newtown (Doll). Ailanthus.

URODUS Herrich–Schaeffer

U. n. sp. Cranberry L., pupa in suspended lace cocoon, *Htly* (Fbs).

PLUTELLA Schranck

7683 **P. maculipennis** Curt. DIAMOND-BACK MOTH. E. Aurora; Ithaca; McLean; Albany; NYC (Watson); **LI:** common and general. Aug–Sep. On various Cruciferae; often injurious to cabbage.
7675 **P. porrectella** L. Buffalo, May, on sweet rocket (*Wild*).

CEROSTOMA Latreille

7650 **C. falciferella** Wlsm. Ithaca, Aug. Larva to be expected on Rosaceae.
7654 **C. dentiferella** Wlsm. Buffalo, Jl, *Wild* (Kf).
—— **C. dentiferella** form **canariella** Wlsm. McLean, Aug (Fbs).
—— **C. xylostella** L. EUROPEAN HONEYSUCKLE LEAF-ROLLER. Ithaca, Je–Jl Lonicera.

EPERMENIA Hübner

8089 **E. ramapoëlla** Kf. Ramapo (type).

ARGYRESTHIA Hübner

7692 **A. calliphanes** Meyr. Cranberry L., *Htly* (Bsk); Ithaca, Jl–Aug (Fbs); Albany. Alder.
7695 **A. oreasella** Clem. Wells; Rock City; Ithaca; McLean; Poughkeepsie; West Farms. Jl–Aug. Larva possibly on oak.
7689 **A. freyella** Wlsm. Ithaca, *Seeley* (US). Je. Red cedar and arbor vitae.
7700 **A. subreticulata** Wlsm. West Falls, Aug (*Wild*); Ithaca, Jl (Fbs). Basswood (Wild).

7687 **A. alternatella** Kf. Ithaca. May; Jl. Juniper berries (Markowitz).

7703 **A. conjugella** Z. Mt. Marcy, 3000 ft.; Trenton Falls. Jl. On fruits of apple and mountain ash.

7711 **A. undulatella** Cham. E. Aurora, Gowanda, Je (*Wild*).

7712 **A. austerella** Z. Otto; E. Aurora, Buffalo, Gowanda (*Wild*); Rock City; Ithaca. Je–Jl.

7713 **A. thuiella** Pck. ARBOR VITAE LEAF-MINER. Ithaca; **LI:** Hicksville; Westerly. Records in economic literature likely to refer also to *Recurvaria thujaëlla.*

OCNEROSTOMA Zeller

—— **O. pinariella** Z. EUROPEAN PINE LEAF-MINER. Ithaca, Jl, *Comstock, Fbs* (Fbs).

ZELLERIA Stainton

7721 **Z. (Xyrosaris) celastrusella** Kf. Buffalo (*Wild*); E. Aurora, *Wild* (Braun). End of May–Je. *Celastrus scandens.*

SCYTHRIS Hübner

8079 **S. impositella** Z. Protection, E. Aurora, Niagara Falls (*Wild*); Rock City; West Farms. Je.

8080 **S. eboracensis** Z. E. Aurora, Gowanda (*Wild*); Rock City; Portage; Crugers; **LI:** Sea Cliff. Je–Jl; end of Aug–Sep. Thistle.

8078 **S. basilaris** Z. Keene Val.; **LI:** Cold Sp. Harb. Je–Jl.

FAMILY GLYPHIPTERYGIDAE

SIMAËTHIS Leach

(*Hemerophila* Hübner)

—— **S. pariana** Cl. APPLE AND THORN SKELETONIZER. First discovered by D. B. Van Buren, of NYS Dept. Farms and Markets, in Westchester Co in 1917. Throughout Hudson R. Val. and **LI,** southward from Whitehall. Je; Aug; Oct–May. Apple, rarely thorn and pear.

7607 **S. pavonacella** Clem. Ramapo. May; Jl–Aug. Desmodium and Amphicarpa.

CHOREUTIS Hübner

—— **C. gnaphaliella** Kearfott. Castile, Je, *Brad* (Fbs).

7608 **C. inflatella** Clem. Wilmington; Batavia; E. Aurora, Irving, Niagara Falls (*Wild*); Ithaca; West Farms. Je–Jl; Sep. *Scutellaria lateriflora.* Most or all of these records are var. *virginiella* Clem.

7618 **C. onustana** Wlk. Mt. Whiteface; Uphill Br., Mt. Marcy; E. Aurora; Keene, Gowanda, Allegany Pk. (*Wild*); Ithaca. Je–Jl.

GLYPHIPTERYX Hübner

—— **G. impigritella** Clem. McLean (Fbs).

7633 **G. circumscriptella** Cham. In Robinson Coll., presumably from NY. Jl.

ABRENTHIA Busck

7606 **A. cuprea** Bsk. Protection, Je 16, 1918, *Wild* (Fbs).

FAMILY HELIODINIDAE

EUCLEMENSIA Grote

7574 **E. bassettella** Clem. Ithaca (How, Fbs); Nyack (Zab); **LI:** Flatbush. Jl–Aug. Larva in Kermes.

CYCLOPLASIS Clemens

7558 **C. panicifoliella** Clem. NY(?). Late Jl–Aug. *Panicum clandestinum.*

SCHRECKENSTEINEA Hübner

7573 **S. erythriella** Clem. Ithaca; Albany. Aug. Sumac.

7572 **S. festaliella** Hbn. Gowanda, *Wild* (Braun); McLean; Ithaca; Rock City. Ap–May; Jl–Aug. Rubus.

FAMILY ÆGERIIDAE

MEMYTHRUS Newman

6755 **M. asilipennis** Bdv. Rochester Jct.; Buffalo; West Pt., Je (Ds); **SI; LI:** Brooklyn, Amagansett (Eng); Jamaica, *Kch.* Oak, in roots and in base of trunks (Eng).

6753 **M. simulans** Grt. var. **luggeri** H. Edw. Buffalo (*Wild*); **SI; LI:** Jamaica. Late May–Jl; the moths flying in vic. NYC in odd-numbered years. Black and red oaks, saplings and branches (Eng); very rarely in white oak or chestnut.

6754 **M. palmii** H. Edw. **LI:** Flatbush; Yaphank. White oak (Eng).

6747 **M. tricinctus** Harr. Buffalo; Lancaster; Big Ind. Val.; Karner; **LI:** general. Je–Jl. Willow and poplar.

6757 **M. dolli** Neum. **LI:** Brooklyn. Poplar and willow (Eng).

6752 **M. scepsiformis** H. Edw. Suffern, Aug (Eng).

6744 **M. pyramidalis** Wlk. Axton; Niagara Falls, *EPV*; Big Ind. Val.; **LI:** Brooklyn; Bay Shore. Je–Aug.

M. pyramidalis form **coloradensis** H. Edw. **LI:** Brooklyn, Aug (Eng).

6745 **M. fraxini** H. Edw. (*morrisoni* H. Edw.). Suffern, Aug, a root borer in ampelopsis (Eng).

MELITTIA Hübner

6739 **M. satyrinifromis** Hbn. SQUASH VINE-BORER. Probably generally distributed throughout the State south of the Adirondacks. Definitely recorded from: Wells; Monroe, Wayne, Onondaga, Seneca, and Tompkins Counties; Rome; Johnstown; Schenectady; Albany; NYC; **SI; LI.** Injurious to squash, pumpkin, and other Cucurbitaceae.

PODOSESIA Möschler

6726 **P. syringae** Harr. LILAC BORER. Albany; Rye (Eng); NYC (Eng); **LI:** Brooklyn (Eng). Ash and lilac.

SANNINA Walker

6725 **S. uroceriformis** Wlk. Albany. Persimmon.

PARHARMONIA Beutenmüller

6723 **P. pini** Kell. Oswego Co; Buffalo; Portage; Ithaca; Karner; Round L. (NYS); Hastings Center, East Schodack, Kinderhook (NYS); Hudson; Ulster Co. (NYS). Jl. Pitch pine, white pine, and spruce.

CONOPIA Hübner

(*Sesia*)

6655 **C. exitiosa** Say (*Sanninoidea*). PEACH TREE BORER. Generally distributed and injurious in the Great Lakes strip including Genesee and Wyoming Counties; Trumansburg, Ithaca, Gloversville; Hudson Val. from Albany south; **SI; LI,** in western part. Jl–Aug. Peach, plum, and cherry (Eng).

C. exitiosa var. **edwardsi** Bt. West Falls, Allegany Pk. (Wild); Phelps; Trumansburg; McLean. Jl–Aug. Largely replaces typical form in western and northern parts of State (Eng).

6674 **C. rubrofascia** H. Edw. Reported from NYC. This record is doubtful (Eng).

6675 **C. bolteri** H. Edw. Ithaca; Big Ind. Val.; Mosholu. Willow.

6715 **C. pyralidiformis** Wlk. Fairport; Batavia; E. Aurora, Jl 28, *Wild* (Fbs); **SI; LI:** Amagansett; Woodhaven.

6686 **C. corni** H. Edw. **LI:** Woodhaven, May–Je, in rootstock of *Doellingeria umbellata* (Eng).

—— **C. acerrubri** Eng. Sharon Sps.; Karner; **SI,** Je (Ds); **LI:** Brooklyn and Newtown (Eng); Hempstead (CU). Maple, especially red maple (Eng).

6685 **C. acerni** Clem. MAPLE CALLUS-BORER. Speculator; Rochester (Angle); Buffalo; Irving (*Wild*); Kenmore; Rock City; Ithaca; Ilion; Schenectady; Albany; **SI; LI:** Brooklyn; Newtown. Je–Jl. Maple.

6677 **C. fulvipes** Harr. Big Ind. Val.

6679 **C. pictipes** G. & R. LESSER PEACH-TREE BORER. L. Ontario strip from Hastings Center to Youngstown and Buffalo; Lyndonville; Hector; Ithaca; Catskills; Schenectady; Albany; Poughkeepsie; West Pt. (Ds); NYC; **SI; LI:** Brooklyn; Sands Pt. (Bs). Part of these records may belong to *C. castaneae*. Je. June berry and other Rosaceae.

6680 **C. castaneae** Bsk. Ithaca, Je 5, 1897 (CU); NYC (Eng); **LI** (Eng). Je–Jl. Chestnut.

—— **C. viburni** Eng. **LI:** Flatbush, Woodhaven, and vic. (Eng). Ap–May. Viburnum.

6694 **C. rubristigma** Kell. Mosholu; **LI:** Brooklyn. Oak galls.

6689 **C. rhododendri** Bt. RHODODENDRON BORER. Rochester; Ithaca; NYC; **LI:** Brooklyn. Rhododendron.

6668 **C. bassiformis** Wlk. Tuckahoe; **SI; LI:** Sea Cliff. Aug–Sep. Rootstock of Eupatorium.

6690 **C. scitula** Harr. Buffalo, Irving (*Wild*); Ithaca; Hudson; Pine I. (Ds); **LI.** Je–Jl. Cornus; oak; hazel (Eng); hickory; chestnut; Crataegus (Wellhouse); and in oak galls, perhaps mixed with other species, certainly from Andricus galls on oak.

6669 **C. tipuliformis** L. IMPORTED CURRANT BORER. Plattsburg; Orleans Co; Buffalo; Chautauqua Co; Ithaca; Kendall; Albany; Ulster Co; **SI; LI:** Pinelawn; Easthampton; Floral Pk., May (Ds); Brooklyn (Eng). Je. Gooseberry and currant stems.

6688 **C. pyri** Harr. PEAR BORER. Honeoye Falls; Albion; Buffalo (Kell); Colden, Aug 3, *EPV*; Ithaca; **SI; LI:** Brooklyn. May; late Jl. Apple, pear, etc.

6681 **C. albicornis** H. Edw. E. Aurora, Buffalo (*Wild*); Catskills; Karner; NYC; **SI** (Ds); **LI:** Brooklyn. Je–Jl. Willow and poplar.

6691 **C. ithacae** Bt. Plattsburg (Ds); Ithaca (type). End of Je–early Aug. Roots of Heliopsis.

6660 **C. rileyana** H. Edw. **SI:** Tottenville, Aug (Eng, Ds); **LI:** Rockaway (Eng). Roots of Solanum (Eng).

6699 **C. sigmoidea** H. Edw. NYC (Eng); **LI:** Amagansett; Woodhaven. Aug. Black willow.

ÆGERIA Fabricius

6652 **Æ. apiformis** Cl. HORNET MOTH. Injurious in Brooklyn and NYC (Eng); **LI:** Glendale, Je, *Kch*; reported also from Syracuse. Poplar and willow.

6654 **Æ. tibialis** Harr. Plattsburg; Keene Val. (Eng); Goat I. (Kell). Je–Jl. In poplar and willow.

ALCATHOË H. Edwards

6650 **A. caudata** Harr. New Russia, *Jones*; NYC; **LI:** Brooklyn; Newtown. Je–Aug. In crown of Clematis.

A. caudata var. **walkeri** Neum. **LI:** Jamaica (Eng).

BEMBECIA Hübner

6649 **B. marginata** Harr. BLACKBERRY CROWN-BORER. Wilmington; Lancaster; E. Aurora, Buffalo (*Wild*); Allegany Pk., *Wild* (Fbs); Ithaca; West Pt., Sep, *Robn* (Ds); **SI; LI.** Blackberry and raspberry roots, often injurious.

B. marginata var. **albicoma** Hulst. Big Ind. Val.; **LI:** Brooklyn.

FAMILY TORTRICIDAE

SUBFAMILY EUCOSMINAE

HEMIMENE Hübner

7233 **H. dana** Kf. Black Br.; Batavia; Rock City; Crosby; Ithaca; McLean. May–Je.

7256 **H. bittana** Bsk. West Falls, Buffalo (*Wild*); Ithaca. Je–Jl.

7255 **H. simulana** Clem. Buffalo (*Wild*); Ithaca; West Farms. End of May; end of Aug.

7254 **H. incanana** Clem. E. Aurora, Gowanda, Portage (*Wild*).

LASPEYRESIA Hübner

(*Enarmonia*)

7231 **L. lautana** Clem. McLean; Ithaca; Ramapo. Ap–May.

7207 **L. caryana** Fitch. PECAN SHUCK-WORM. Easton (type). May–Aug. Hickory and walnut.

7208 **L. prunivora** Wlsm. LESSER APPLE WORM. Buffalo, Je (*Wild*); Crosby; Ithaca, Aug (Hein). Young plums, Crataegus fruit, and crab apples.

7210 **L. interstinctana** Clem. CLOVER-SEED CATERPILLAR. Newport; E. Aurora, Gowanda (*Wild*); Castile, *Brad*; Ithaca; McLean; Big Ind. Val.; NYC. May–Je; late Jl–Sep. Clover.

7215 **L. saundersana** Kf. Karner (Fbs).

7213 **L. fana** Kf. E. Aurora, May 30, *Dnd* (Fbs).

7216 **L. eclipsana** Z. Castile, *Brad*; Ithaca. Ap–May. Larva on grape.

7235 **L. nigricana** Steph. (*novimundi* Hein.). PEA MOTH. Niagara Falls (*Wild*). Je–Aug. Larvae in pods of peas and other legumes.

7234 **L. dandana** Kf. E Aurora, Gowanda, Buffalo, Je–Aug (Wild).

—— **L. molesta** Bsk. ORIENTAL FRUIT MOTH. Lockport, Aug, *Strickland* (larvae); White Plains (NYS); Larchmont (CU); **LI**: Flushing (CU). Injurious to peach, plum, apple, and other Rosaceae.

7250 **L. multilineana** Kf. Jamestown, Je.

7224 **L. albimaculana** Fern. Buffalo, Je–Jl (*Wild*).

7236 **L. gallaesaliciana** Rly. Peru; Buffalo, Jl (*Wild*); Big Ind. Val. Je–Jl. Gall on willow.

7236 **L. populana** Bsk. Ithaca, Jl, *Fbs* (Hein).

CARPOCAPSA Treitschke

7270 **C. pomonella** L. CODLING MOTH. Generally distributed. Spring; Jl–Aug. Injurious chiefly to apple and pear.

MELISSOPUS Riley

7269 **M. latiferreanus orichalceanus** Wlsm. Gowanda, E. Aurora (*Wild*); Ithaca; McLean; Karner. Jl–Aug; late Sep. On young acorns.

GYMNANDROSOMA Dyar

7252 **G. punctidiscanum** Dyar. Ithaca; NYC; **LI**: Maspeth. May–Jl.

ECDYTOLOPHA Zeller

7253 **E. insiticiana** Z. LOCUST GALL. Peru; Lewiston; E. Aurora (*Wild*); Canandaigua (NYS); Baldwinsville; Rochester Jct.; Ithaca; Karner; Rhinebeck; New Windsor; **LI**: Patchogue (NYS). May–Aug. Makes fusiform gall on twigs of locust.

EPINOTIA Hübner

7163 **E. nanana** Tr. (*piceafoliana* Kf.). Portage Falls; Gowanda, *Wild* (Fbs); Scarsdale (NYS). Je. Spruce.

7140 **E. lindana** Fern. Ithaca; McLean. Sep. Cornus.

7084 **E. signatana** Clem. Newport (NYS); Buffalo (Wild); Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean; New Windsor. Je. Maple.

7280 **E. timidella** Clem. Crosby; Ithaca (CU, bred); **LI:** Bellport (Dyar). May. Oak.

7028 **E. similana** Hbn. Pearl R. Hazel and birch.

6987 **E. mediovirida**na Kf. McLean, Aug–Sep.

6984 **E. vertumnana** Z. McLean, Mar–May.

6979 **E. walkerana** Kf. Ithaca, late Jl–Sep. Catkins of hazel.

6974 **E. transmissana** Wlk. Saranac Inn; Cranberry L., *Htly* (Bsk); summit of Mt. Marcy; E. Aurora, Buffalo (*Wild*); Rock City; Ithaca; McLean; Albany; **LI:** Forest Pk., *Kch* (Fbs). Jl–early Aug. Hazel (Wild).

6972 **E. solicitana** Wlk. Castile, Je, *Brad* (Fbs); E. Aurora, Niagara Falls (*Wild*). May–Je. White birch.

6964 **E. rectiplicana** Wlsm. Peru (Fbs); Keene, *Wild* (Fbs); Ithaca; McLean. Je–Jl. Willow.

—— **E. signiferana** Hein. Hemlock L., Sep (Fbs).

ANCYLIS Hübner

7203 **A. tineana** Hbn. McLean, Ap–Jl. Poplar and various Rosaceae.

(7196) **A. diminutana** Haw. (*uncana* auct. not Hbn.). Peru; Black Br.; Crosby. Ap–Jl. Willow.

7206 **A. albacostana** Kf. Black Br.; **LI:** Orient, May 5, *Lath.*

7173 **A. mediofasciana** Clem. Karner; Normanskill. May–Je.

7194 **A. cornifoliana** Rly. E. Aurora, *Wild* (Fbs); Ithaca; McLean. May–Je. Blackberry, cornel, and birch.

7193 **A. apicana** Wlk. Keene, *Wild* (Fbs); Buffalo, Je (*Wild*); Ithaca; McLean; Trenton Falls; Wellsville. May–Je. Raspberry.

7192 **A. divisana** Wlk. Crosby; Ithaca; Trenton Falls. May. Oak and sycamore.

7189 **A. floridana** Z. Castile, May 16, *Brad* (Fbs); **LI:** Forest Pk., Aug 31, *Kch* (Fbs).

7185 **A. comptana** Froel. STRAWBERRY LEAF-ROLLER. Reported from Buffalo (*Wild*), Glens Falls, Nassau, and West Farms. May. Injurious to strawberries in Europe. The strawberry leaf-roller in this State may be either this species or *A. floridana* Z.

ANCHYLOPERA Stephens

(*Ancylis*, in part)

7174 **A. nubeculana** Clem. N. Elba; Peru; Cranberry L., *Htly*; Palmyra; E. Bloomfield; Buffalo; E. Aurora; Fredonia; Buffalo; Rock City; Castile, *Leon*; Crosby; McLean; Ithaca; Albany (NYS); Niverville; **LI:** Glendale, *Kch* (Fbs). May–Jl. Apple and other trees.

7175 **A. subaequana** Z. Black Br.; Ithaca. Je–Jl; end of Aug.

7178 **A. semiovana** Z. Ithaca, May – early Jl.

7184 **A. maritima** Dyar. **LI:** Speonk. Larva in summer on beach pea; moth in following spring and again in Aug.

7181 **A. pulchellana** Clem. Ithaca, May–Jl.

7180 **A. angulifasciana** Z. CLOVER LEAF-TIER. E.Aurora (*Wild*); Castile, *Brad*; Crosby; Ithaca; McLean; **LI:** Forest Pk., *Kch* (Fbs). May–Jl; late Aug. Clover.

7191 **A. platanana** Clem. Rock City; Big Ind. Val.; New Windsor. Je.

7186 **A. burgessiana** Z. Keene, E. Aurora (*Wild*); Rock City; Ithaca; McLean; Karner. Je–Jl. Oak; also plum (var. *pruni*).

7190 **A. laciniana** Z. E. Aurora, May–Jl (*Wild*).

7187 **A. dubiana** Clem. E. Aurora, Je (*Wild*).

—— **A. fuscociliana** Clem. Rock City; Crosby; Ithaca; McLean; Trenton Falls. Je. Chestnut and elm.

7176 ?**A. discigerana** Wlk. (*spiracifoliana* Hein. not Clem.). Newcomb; Rock City; Castile, *Brad*; Ithaca; McLean. Je – early Jl.

NORMA Heinrich

7147 **N. dietziana** Kf. Rock City, May–Je. Crataegus.

EPIBLEMA Hübner

6970 **E. abbreviatana** Wlsm. E. Aurora, *Wild* (Fbs); Buffalo, Niagara Falls (Wild); McLean. May–Je.

6981 **E. strenuana** Wlk. Stanley; Poughkeepsie (NYS); NYC (Watson); **LI:** Glendale, Forest Pk., *Kch* (Fbs). May–Sep. Ambrosia.

E. strenuana var. **minutana** Kf. Buffalo, E. Aurora (*Wild*); Ithaca.

7026 **E. otiosana** Clem. Peru; Ithaca; Big Ind. Val.; **LI:** Forest Pk., *Kch* (Fbs); Orient, *Lath.* Je–Oct. Bidens.

6988 **E. brightonana** Kf. Ithaca, Aug.

7025 **E. tripartitana** Z. Southern NY, Aug. Larva in gall of *Rudbeckia laciniata* and Solidago.

7245 **E. walsinghami** Kf. Rock City, May.

7020 **E. carolinana** Wlsm. Buffalo (*Wild*); Ithaca. Jl–Aug.

7014 **E. scudderiana** Clem. Lewiston; Irving (*Wild*); Buffalo; Castile, *Brad*; Ithaca; McLean; Albany; New Windsor. Je. Solidago.

7016 **E. obfuscana** Dyar. Rock City; Ithaca; McLean; **SI:** Clove Val. May–Sep. Solidago.

7013 **E. illotana** Wlsm. E. Aurora (*Wild*); Kinderhook; **LI:** Orient, *Lath.* May–Je.

7015 **E. desertana** Z. Peru; E. Aurora, Buffalo (*Wild*); Ithaca; New Windsor; Ramapo. May. Solidago.

EUCOSMA Hübner

6901 **E. circulana** Hbn. **SI**(?). This species presumably occurs northward, but northern records, so far as I have seen the specimens recently, are based on other species of the group. The type is said to have come from Penn.

6901.1 **E. scintillana** Clem. Ithaca; McLean; **LI:** Woodhaven, *Kch* (Fbs). Je; Aug–Sep.

6902 **E. dodecana** Z. "NY", Je.

6884 **E. adamantana** Gn. "NY", Sep (coastal marshes).

6879 **E. quinquemaculana** Rob. Wells (NYS); **LI:** Bellmore. Je; Aug–Sep.

6880 **E. robinsonana** Grt. Buffalo, Je (*Wild*).

7036 **E. sombreana** Kf. Ithaca; **LI:** Brooklyn. Jl–Aug. Helianthus.

6934 **E. cataclystiana** Wlk. Peru; E. Aurora, *Wild* (Fbs); Buffalo (*Wild*); Ithaca; McLean; Poughkeepsie; **SI:** Clove Val.; **LI:** Orient, *Lath.* Je–Aug. Ambrosia.

6917 **E. pergandeana** Fern. Peru; **LI:** Lynbrook; Gay I. (in LI Sound). Je–Jl.

6926 **E. comatulana** Z. var. E. Aurora, *Wild* (Fbs); Ithaca. Jl 21.

6967 **E. juncticiliana** Wlsm. Otto; Ithaca; McLean. Jl–Aug. Larva boring in Solidago.

7029 **E. dorsisignatana** Clem. Essex Co; McLean (Fbs); Ithaca; Dansville; New Windsor; Pine I.; NYC; **SI; LI:** Cypress Hills, May 25, Woodhaven, Sep, and Forest Pk., Aug, *Kch* (Fbs).

E. dorsisignatana Clem. var. **diffusana** Kf. Buffalo, Aug (*Wild*); **LI:** Coram.

7029.1 **E. similana** Clem. (*confluana* Kf). Buffalo (*Wild*); Ithaca; McLean; Big Ind. Val.; **LI:** Glendale, *Kch* (Fbs). Aug–Sep.

6950 **E. eumaea** Meyr. Ithaca, Jl.

6941 **E. womonana** Kf. E. Aurora, *Wild* (Fbs); Ithaca; McLean, Aug 26.

—— **E. palabundana** Hein. Ithaca, Jl–Aug. An atypical specimen, probably representing a good race.

—— **E. tocullionana** Hein. Peru, Je (Fbs). Larva on Picea, boring in cones.

THIODIA Hübner

7059 **T. refusana** Wlk. **LI:** E. New York. Ap–May; Sep.

7239 **T. parmatana** Clem. (*crispana* Kf., etc.). Ithaca; **LI:** Forest Pk., *Kch* (Fbs). Je–Sep.

—— **T. alterana** Hein. Ithaca, Aug.

—— **T. marmontana** Hein. Ithaca, Jl–Aug.

7054 **T. formosana** Clem. E. Aurora, *Dnd* (Fbs); Rock City; Ithaca; McLean; Karner; Ramapo; **SI:** Watchogue. End of May – Je.

7053 **T. ferruginana** Fern. Black Br.; E. Aurora; Rock City; Ithaca; McLean; **SI; LI:** Forest Pk., *Kch* (Fbs). May–Je.

7051 **T. roseoterminana** Kf. E. Aurora (*Wild*).

7052 **T. awemeana** Kf. Crosby; McLean; Ithaca. May–Je.

7048 **T. radiatana** Steph. N. Elba; Castile, Je, *Brad* (Fbs); E. Aurora, Buffalo (Wild); McLean; Big Ind. Val.; Ramapo; Bronxville; **LI:** Oyster Bay. End of May – Je.

7065 **T. striatana** Clem. Peru; Oswego; E. Aurora, Niagara Falls; Crosby; Karner; Nassau; Ramapo; New Windsor; Katonah; Ithaca. End of May – Aug.

7067 **T. clavana** Fern. "NY" (Hein).

7063 **T. ochroterminana** Kf. Potter Swamp; Ithaca. Aug–Sep.

7075 **T. raracana** Kf. E. Aurora, Aug, *Wild* (Fbs); **LI:** Forest Pk., Central Pk., Aug, *Kch* (Fbs).

—— **T. perfuscana** Hein. Ithaca, Aug.

6976 **T. tomonana** Kf. E. Aurora, *Wild* (Fbs); Ithaca. Aug–Sep.

7062 **T. imbridana** Fern. **LI:** Forest Pk., Aug 31, *Kch* (Fbs).

7061 **T. olivaceana** Rly. McLean; Rhinebeck. Je–Aug.

SPILONOTA Stephens

(*Tmetocera* Lederer)

7170 **S. ocellana** Schiff. BUD-MOTH. Common and general wherever apples are grown. Je – early Aug. Apple and other Rosaceae.

STREPSICRATES Meyrick

7171 **S. indentanus** Dyar. "NY", Jl (AM). Myrica.

SONIA Heinrich

6971 **S. constrictana** Z. **LI:** Glendale, Jl 1, 1923, *Kch* (Fbs).

RHYACIONIA Hübner

(*Evetria* auct. not Hübner; *Retinia* Guenée)

—— **R. buoliana** Schiff. EUROPEAN PINE-SHOOT MOTH. Buffalo (NYS); Tarrytown (NYS); NYC (NYS); **LI:** Great Neck; Westbrook; Lynbrook. In tips of pine shoots.

6760 **R. frustrana** Coms. Ithaca (Comstock); Karner (Felt). Shoots of scrub pine.

6761 **R. rigidana** Fern. Ithaca (Fern). Ap. *Pinus rigida.*

—— **R. busckana** Hein. **LI:** Bellmore, Central Pk.; Wyandanch, *Kch* (Fbs). Ap.

6762 **R. comstockiana** Fern. Ithaca (Comstock); Karner (Felt). In young twigs of *Pinus rigida.*

6765 **R. gemistrigulana** Kf. Ithaca, Jl 10, 1924 (Fbs).

PROTEOTERAS Riley

7134 **P. naracana** Kf. Ithaca, end of May–Jl.

7130 **P. aesculana** Rly. Ithaca, Je. Maple and buckeye.

7135 **P. moffatiana** Fern. Lancaster; E. Aurora; Ilion; Ithaca; Big Ind. Val. Je. Maple.

GRETCHINA Heinrich

—— **G. amatana** Hein. Gowanda and E. Aurora (*Wild*); Castile, Je, *Brad* (Fbs); Ithaca; Crosby; McLean. May – early Je.

7116 **G. deludana** Clem. Buffalo, E. Aurora (*Wild*); Crosby; Ithaca. May–early Je.

7126 **G. bolliana** Sling. Gowanda, Buffalo, E. Aurora (Wild). Sep. Pecan.

—— **G. semialba** McD. McLean, May (paratypes).

EXENTERA Grote

7120 **E. maracana** Kf. Ithaca; McLean. End of Mar–Ap.

6992 **E. improbana** Wlk. Ithaca. Exact distribution uncertain because of confusion with *E. spoliana.*

7121 **E. spoliana** Clem. Ithaca, Mar–Ap. Chestnut.

7117 **E. haracana** Kf. Buffalo, Je (*Wild*).

7139 **E. costomaculana** Clem. Gowanda; Rock City; Portage; Crosby; Ithaca. Ap–May.

7138 **E. virginiana** Clem. Ithaca; Pearl R.; Albany. Ap–May.

GYPSONOMA Meyrick

7146 **G. fasciolana** Clem. Peru; McLean; Karner; New Windsor; **LI:** Wyandanch, May 30, *Kch* (Fbs). Jl.

—— **G. substitutionis** Hein. Ithaca, Jl.

7148 **G. haimbachiana** Kf. E. Aurora, Je, willow (*Wild*); **LI:** Forest Pk., Glendale, May and Jl–Aug, *Kch* (Fbs).

7159 **G. salicocolana** Clem. Ithaca, Je–Jl. Willow.

PSEUDOGALLERIA Ragonot

6878 **P. inimicella** Z. Ithaca, Je. Rootstocks of Smilax.

EPISIMUS Walsingham

7110 **E. argutanus** Clem. Speculator; E. Aurora (Wild); Crosby; Ithaca; NYC. May–Sep. Various shrubs, especially Rhus and Hamamelis; also Euphorbia.

—— **E. tyrius** Hein. **LI:** Westbury Sta., Queens Co (type). Maple.

OLETHREUTES Hübner

6869 **O. bipartitana** Clem. N. Elba; Fentons; Oswego; Jamestown; Rock City; Millerville; Otto; Castile; McLean; Ithaca; Big Ind. Val.; Albany; Ramapo; **LI:** Forest Pk., *Kch* (Fbs). May–Je; Aug.

6865 **O. fuscalbana** Z. Peru; N. Twin Br., Mt. Marcy; Newcomb; Rock City; Ithaca; McLean; Trenton Falls; Ft. Edward. Je–Aug.

—— **O. castorana** McD. Ithaca, Je 30 – Aug.

—— **O. polluxana** McD. N. Twin Br., Mt. Marcy; Peru. Je–Jl.

6864 **O. campestrana** Z. Cranberry L., *Htly* (Bsk); Peru; Rock City; Ithaca; McLean; Trenton Falls; Albany (NYS). Je. Cherry.

6853 **O. abietana** Fern. Buffalo (CU Econ); Ithaca; Whitehall (CU Econ); **LI:** Woodmere, *Leon* (Fbs). Spruce.

6819 **O. deceptana** Kf. Peru; McLean. Je–Aug.

6862 **O. instrutana** Clem. Peru; Saranac Inn; Newport; Fentons; Batavia; E. Aurora and Buffalo (*Wild*); Otto; Ithaca; Schenectady; Rhinebeck; New Windsor; **LI:** Central Pk., *Kch* (Fbs). Jl–Sep. Clover or buckeye; arrow-wood (Wild).

6834 **O. coruscana** Clem. Fentons; Newport; Gowanda, E. Aurora (Wild); Rock City; Portage; Big Ind. Val.; Albany; Poughkeepsie; New Windsor; NYC; **LI:** Lynbrook, Je–Jl.

6835 **O. constellatana** Z. Otto; Rock City; Portage; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Schenectady. Je.

6843 **O. astrologana** Z. Mt. Marcy; Newcomb; E. Aurora, Buffalo (*Wild*); Ithaca. Jl.

6838 **O. coronana** Kf. Trenton Falls, Je.

6839 **O. major** Wlsm. N. Twin Br., Mt. Marcy, Jl.

—— **O. youngana** McD. Wilmington, Jl – early Aug.

6821 **O. nimbatana** Clem. ROSE BUD-WORM. E. Aurora, Buffalo (*Wild*); Ithaca; McLean; Albany; Rhinebeck; Scarsdale. Je–Aug. Rose.

6825 **O. separatana** Kf. Ithaca; Big Ind. Val. May–Aug. Rose and blackberry.

6821 **O. montanana** Kf. Ithaca.

6859 **O. duplex** Wlsm. Peru; Cranberry L., *Htly* (Bsk); E. Aurora, Buffalo (Wild); Portage; Ithaca; Ilion. Je–Jl. Poplar.

6816 **O. albeolana** Z. Big Ind. Val.; Karner; New Windsor; **LI:** Orient, Sep 9, *Lath.* Je–Jl. White birch.

6847 **O. chionosema** Z. Buffalo, E. Aurora (Wild); Ithaca; Schenectady; Albany. Thorn and apple.

6871 **O. impudens** Wlsm. Newcomb; Rock City; Batavia; McLean. Je–Jl.

6827 **O. hebesana** Wlk. Castile, *Brad* (Fbs); E. Aurora (*Wild*); Crosby; Ithaca; McLean; Nassau; New Windsor; **LI:** Forest Pk., *Kch* (Fbs). Je – end of Sep. General feeder.

6831 **O. agilana** Clem. Buffalo, Colden (*Wild*); Portage; Potter Swamp; Ithaca. May–Jl. Impatiens.

6830 **O. auricapitana** Wlsm. Ithaca. Je; Aug 1.

—— **O. infuscata** Hein. Ithaca.

—— **O. approximana** Hein. Rensselaer, May 26, 1916, *Yg* (NYS).

PHAECASIOPHORA Grote

6877 **P. confixana** Wlk. **LI:** Creedmoor, *Kch* (Fbs). May–Aug.

6873 **P. niveiguttana** Grt. "NY" (Fern). Late May. Sassafras and Hamamelis.

CYMOLOMIA Lederer

(*Exartema* Clemens)

6804 **C. fasciatana** Clem. E. Aurora, Gowanda, Lime L. (Wild); Otto; Rock City; Salamanca (Wild); Ithaca; McLean; New Windsor; **LI:** Forest Pk., *Kch.* Je–Jl. Rumex.

—— **C. rusticana** McD. Peru; Ithaca; **LI:** Coram, *Kch* (Fbs). Jl.

—— **C. electrofusca** Hein. Ithaca, May–Jl. Sweet fern.

—— **C. micantana** Kf. E. Aurora, Buffalo (Wild); Ithaca. Je. Dogwood.

6799 **C. olivaceana** Fern. Buffalo (*Wild*); Ithaca; New Windsor, *Morton.* Je–Jl.

6803 **C. appendicea** Z. E. Aurora, *Wild* (Fbs); Rock City (aberration with pale antemedial fascia); Ithaca; Trenton Falls; **LI:** Forest Pk., *Kch* (Fbs). Je–Jl. Oak; alder (Wild).

6800 **C. concinnana** Clem. E. Aurora; Ithaca; McLean; West Farms, *Angus*. Je–Jl. Blackberry.

C. concinnana var. **terminana** McD. E. Aurora, Jl (Wild).

6797 **C. zelleriana** Fern. Portage, Jl–Aug. White birch.

6805 **C. corylana** Fern. Buffalo (Wild); E. Aurora; Ilion. Je–Jl. Hazel.

6798 **C. permundana** Clem. E. Aurora, Buffalo (Wild); Ithaca; **LI:** Coram, *Kch* (Fbs). Jl. Raspberry and Opulaster (Rosaceae), and huckleberry.

6796 **C. sericorana** Wlsm. Elba and E. Aurora (*Wild*); Ithaca, Jl; **LI:** Coram, *Kch* (Fbs).

—— **C. melanomesa** Hein. Ithaca. Jl.

7545 **C. merrickana** Kf. Crosby; Ithaca; Portage (red variety). Je–Jl. Witch-hazel.

6801 **C. punctana** Wlsm. E. Aurora; Buffalo (Wild); Ithaca. Je–Jl. Cornus.

—— **C. cornana** Hein. E. Aurora, *Wild* (Fbs); Buffalo (Wild); Ithaca. Jl. Cornus.

6806 **C. exoleta** Z. E. Aurora, *Wild* (Fbs); Ithaca. Je–Aug. Hazel or gooseberry.

—— **C. tiliana** Hein. Ithaca, Je–Jl. Basswood.

6793 **C. nitidana** Clem. E. Aurora, Buffalo, Jl (*Wild*).

—— **C. nigrana** Hein. S. Wales, *Wild* (Fbs); Geneva; Ithaca. Jl–Aug.

6807.1 **C. clavana** Wlk. S. Wales (*Wild*); Ithaca. Jl – early Aug.

6807.2 **C. quadrifida** Z. Peru; Ithaca. Je–Jl. Cornus.

6807 **C. inornatana** Clem. E. Aurora, Gowanda (*Wild*); Ithaca; **LI:** Forest Pk., *Kch* (Fbs). Je–Aug. Wild cherry.

6809 **C. footiana** Fern. Hemlock L.; Ithaca. Je–Aug. Witch-hazel.

—— **C. tenebrica** Hein. McLean, Jl (types). No other specimens are known.

POLYCHROSIS Ragonot

6784 **P. yaracana** Kf. Gowanda, *Wild*. May–Je.

6786 **P. rhoifructana** Kf. Near Rochester, May. Rhus, Cornus, and Kalmia.

6779 **P. viteana** Clem. GRAPE-BERRY MOTH. E. Aurora (*Wild*); Orleans Co, usually light infestation; Chautauqua Co, usually scarce (Hartzell); Ithaca; Karner; **SI:** Stapleton, New Brighton (CU Econ); **LI:** Orient Pt., *Latham*. Grape.

SUBFAMILY TORTRICINAE

SPARGANOTHIS Hübner

7306 **S. violaceana** Rob. Peru; Rock City; Ithaca; McLean; Schoharie; Karner (Fbs). May–Jl.

7303 **S. irrorea** Rob. Gowanda, E. Aurora (*Wild*); Otto; Ithaca. Je – early Aug.

7304 **S. xanthoides** Wlk. Newcomb; Portage; Gowanda, E. Aurora, Colden (Wild); Potter Swamp; Ithaca; McLean; Liberty; Big Ind. Val.; Putnam Co; New Windsor. Je–Jl. Mint.

7302 **S. cana** Rob. **LI:** Glendale, Jl 10, 1918, *Kch* (Fbs).

7315 **S. caryae** Rob. Lewis Co, Je–Sep. General feeder.

7307 **S. unifasciana** Clem. (*puritana* Rob.). Newport; North Creek; Wells; Ithaca; Trenton Falls; Karner. End of Je; Aug.

7316 **S. sulfureana** Clem. Newport; Honeoye Falls; Buffalo; E. Aurora; Castile; Portage; Ithaca; McLean; Big Ind. Val.; Liberty; Pearl R.; New Windsor; **LI:** E. New York. Je–Sep. General feeder.

7322 **S. tristriata** Kf. "NY", Sep.

7296 **S. diluticostana** Wlsm. Newark; Batavia; Otto; E. Aurora, Buffalo (*Wild*); Ithaca. Je–Aug. Oak, cherry, and syringa.

7294 **S. reticulatana** Clem. North Creek; McLean (Fbs).

7295 **S. ferreana** Bsk. Ilion, Jl.

7293 **S. karacana** Kf. Batavia. Bayberry and scrub oak.

7288 **S. pettitana** Rob. Rochester; Batavia; Elba, E. Aurora (Wild); Rock City; Ithaca; Little Falls; Schenectady; Pine I.; **LI:** Great R. On various plants, especially maple.

7332 **S. idaeusalis** Wlk (*sentana* Clem.). North Creek; Buffalo, E. Aurora, Gowanda (Wild); Otto; Ithaca; McLean; Big Ind. Val.; New Windsor; **SI:** Clove Val.; **LI:** Forest Pk., *Kch* (Fbs). Je–Aug. Solanum, Solidago, clover, and other herbs.

7331 **S. exasperatana** Z. Ithaca, Jl–Aug.

7323 **S. flavedana** Clem. Putnam Co; New Windsor; NYC; **SI:** Clove Val.; **LI:** Jamaica; Glendale, *Kch* (Fbs). General feeder.

AMORBIA Clemens

7286 **A. humerosana** Clem. E. Aurora, Gowanda (*Wild*); Castile, Je, *Brad* (Fbs); Ilion; Crosby; Ithaca; McLean; Big Ind. Val.; New Windsor; **LI:** Forest Pk., *Kch*. May–Je.

COELOSTATHMA Clemens

7281 **C. discopunctanum** Clem. Newcomb; E. Aurora; Otto; Ithaca; McLean; Ilion; Schenectady; Rhinebeck; **LI:** Forest Pk., *Kch* (Fbs). Je–Aug. Clover.

ADOXOPHYES Meyrick

7282 **A. furcatana** Wlk. Ithaca, Je–Sep.

ARGYROTOXA Stephens

7410 **A. bergmanniana** L. Buffalo (*Wild*).

7409 **A. albicomana** Clem. N. Elba; Batavia; Buffalo (*Wild*); Rock City; Ithaca; Albany; Rhinebeck; Crugers; NYC; **SI; LI:** Glendale, *Kch* (Fbs). Je–Jl. Rose.

7409.1 **A. curvalana** Kf. **LI:** Cold Sp., Je 12, 1921, *Kch* (Fbs).

7409.2 **A. semipurpurana** Kf. Buffalo, Salamanca (*Wild*); Ithaca, abundant; **LI:** Forest Pk., *Kch* (Fbs). Je–Jl. Rose and oak.

A. semipurpurana var. **dorsipurpurana** Kf. Ithaca, Je–Jl.

PERONEA Curtis

7419 **P. minuta** Rob. var. **cinderella** Rly. YELLOW-HEADED CRANBERRY WORM McLean (*cinderella* only); Johnstown, *Alex* (Bsk). Sep.

7427 **P. angusana** Fern. West Falls, *EPV* (Fbs); Ithaca. End Jl–Sep.

7443 **P. subnivana** Wlk. Wilmington; E. Aurora; Ithaca; Albany. Late fall to spring. Vernonia.

7416 **P. cervinana** Fern. Cranberry L., *Htly* (Bsk).

7429 **P. heindeliana** Fern. Ithaca (?). In "pine-cone" gall on willow.

7422 **P. trisignana** Rob. Big Ind. Val.; Bronx, NYC; **SI; LI.** White birch.

7435 **P. nigrolinea** Rob. Boston, Sep (Wild).

P. placidana Rob. E. Aurora, Allegany Pk., *Wild* (Kf, as *parisiana*).

7440 **P. chalybeana** Fern. Ithaca; McLean. Aug; Oct–May.

7425 **P. nivisellana** Wlsm. Buffalo, E. Aurora, Aug (Wild); Ithaca. Crataegus.

—— **P. variegana** Schiff. Clinton, Jl. Larvae on various trees and shrubs.

7423 **P. logiana** Schiff. Ithaca; Karner; New Windsor. Viburnum.

7439 **P. hastiana** L. Albany; New Windsor. Determinations doubtful. Vaccinium and Andromeda.

—— **P. n. sp.** near **hastiana.** Hemlock L.; Ithaca; McLean.

7431 **P. maculidorsana** Clem. McLean, Sep.

7426 **P. variana** Fern. McLean; Mt. Whiteface, just below tree line.

7413 **P. ferrugana** Schiff. Wilmington; Ithaca (US); Taughannock. White birch.

TORTRICODES Guenée

—— **T. fragariana** Bsk. Ithaca, common, Aug–Sep. Strawberry.

CNEPHASIA Curtis

7402 **C. argentana** Cl. Trenton Falls, Jl.

7401 **C. osseana** Scop. var. **niveosana** Pck. Lewis Co, Je, *Hill* (Fern).

7374 **C. peritana** Clem. Newcomb; Otto; E. Aurora, *Wild* (Fbs); Ithaca; McLean; Ramapo; West Farms. May–Jl; Sep.

7377 **C. virescana** Clem. Rock City; Portage; Crosby; Ithaca. Je.

7503 **C. listerana** Kf. E. Aurora, Jl, *Wild* (Fbs).

HARMOLOGA Meyrick

7400 **H. fumiferana** Clem. SPRUCE BUD-WORM. Adirondack and Allegheny Highlands; Syracuse, Utica (NYS); E. Aurora, Buffalo (Wild); **LI:** Glendale, Jl 23, 1913, *Kch* (Fbs). Spruce.

EULIA Hübner

7389 **E. ministrana** L. Summit and N. Twin Br., Mt. Marcy; N. Elba Twp.; Keene, *Wild* (Fbs); Castile, *Brad*; Ithaca; Big Ind. Val. Je. Many trees and shrubs.

7390 **E. velutinana** Wlk. RED-BANDED LEAF-ROLLER. Newark; Honeoye Falls; Lewiston; E. Aurora; Salamanca; Ithaca; Delmar; Albany; New Windsor; Florida; **LI:** Jamaica, Forest Pk., Glendale, *Kch* (Fbs); Orient, *Lath.* Ap–Oct. Two or three broods, with maxima in May, Jl. and late Aug. Almost any plants except conifers; even reported from balsam fir.

7394 **E. pinatubana** Kf. Peru; Portage; Ithaca. Pine.

7393 **E. gloverana** Wlsm. Lewis Co, May.

7396 **E. mariana** Fern. E. Aurora, *Wild* (Fbs); Jamestown; Castile, *Brad*; Ithaca; Ilion; Ramapo. May–Jl. Vaccinium.

7399 **E. juglandana** Fern. Batavia, E. Aurora, Buffalo (Wild); Ithaca; NYC; **LI:** Brooklyn. Je–Aug. Hickory and Viburnum.

7398 **E. quadrifasciana** Fern. Lewis Co; Batavia; E. Aurora, Buffalo, *Wild* (Fbs); Albion; Ithaca. May–Jl.

7364 **E. quercifoliana** Fitch. Buffalo (*Wild*); Ithaca; Big Ind. Val.; Albany; **LI:** Forest Pk., Coram, *Kch* (Fbs). Je–Jl. Oak and buckthorn.

7397 **E. alisellana** Rob. Ithaca; Bethlehem; **LI:** Forest Pk., *Kch* (Fbs). Je–early Jl.

TORTRIX Linnaeus

7388 **T. afflictana** Wlk. Ithaca; Albany; New Windsor. May. Fir.

7367 **T. clemensiana** Fern. Peru; Newport; Lewiston; Honeoye Falls; Buffalo; Rock City; Castile, *Brad*; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Utica; Albany; New Windsor; **SI; LI:** Brooklyn. Var. *nervosana* Kf. occurs at Peru and Ithaca. May–Je; Aug–Sep. Goldenrod (Wild).

7366 **T. pallorana** Rob. Newport; Honeoye Falls; Batavia; Buffalo (*Wild*); Castile, *Brad*; Potter Swamp; Ithaca; McLean; Albany; Hunt's Pt., *Kch* (Fbs); **LI:** Forest Pk., *Kch* (Fbs). Je–Jl; Aug–Sep. Cherry. Silphium; Verbena; clover (Wild).

7369 **T. alleniana** Fern. Peru; Newcomb. Jl. General feeder.

ARCHIPS Hübner

(*Cacoecia* Hübner)

7363 **A. conflictana** Wlk. Peru; Batavia; Buffalo, E. Aurora (*Wild*); Ithaca. **LI:** Woodhaven; Forest Pk., *Kch* (Fbs). Je–Jl.

7345 **A. obsoletana** Wlk. STRAWBERRY LEAF-ROLLER. Peru; Essex Co; Ithaca; McLean; Albany; Putnam Co; Katonah; **SI:** Clove Val. Jl–Aug (largely Sep in 1924). General feeder.

7360 **A. parallela** Rob. W. Albany; **SI:** Clove Val.

7358 **A. purpurana** Clem. Fentons; Rochester (Angle); E. Aurora, Salamanca (*Wild*); Castile, *Brad*; Ithaca; McLean; Schoharie; Albany. Geranium, probably a general feeder.

7356 **A. fractivittana** Clem. Buffalo (*Wild*); Castile, *Brad*; Ithaca; Trenton Falls. Je.

7361 **A. rosaceana** Harr. OBLIQUE-BANDED LEAF-ROLLER. Common. Je (Jl in 1924). General on trees and shrubs; rarely on clover.

7340 **A. rosana** L. Thousand Isls.; Buffalo, E. Aurora, Jl, *Wild* (Fbs); Johnstown (Alex); Albany; West Farms. General feeder.

7343 **A. infumatana** Z. Irving; Lime L., Allegany Pk., Je–Jl (*Wild*).

7348 **A. fervidana** Clem. OAK WEBWORM. Ithaca; East Branch (NYS); **LI:** Coram, *Kch* (Fbs); Westbury (NYS). Jl–Aug. Oak.

7349 **A. cerasivorana** Fitch. CHERRY UGLY-NEST TORTRICID. Peru; Essex Co; Fentons; Forestport (NYS); Honeoye Falls; Erie Co, general; Little Val. (CU Econ); Ithaca; McLean; Alder Cr. (NYS); Big Ind. Val.; Schenectady; Albany; Chatham, Ellenville (NYS); Blauvelt (NYS); Albany; New Windsor; E. Greenbush (NYS). Jl–Aug. Wild cherry.

7342 **A. persicana** Fitch. Peru; N. Elba; Fentons; Newport; E. Aurora, *Wild* (Fbs); Rock City; Castile, *Brad*; Ithaca; Liberty; Debruce; Big Ind. Val.; Ballston; Schenectady. Je. Various plants.

7341 **A. dissitana** Grt. Uphill Br., Mt. Marcy; Buffalo; Jamestown; Ithaca; Ilion. Jl. Probably on conifers.

7353 **A. argyrospila** Wlk. FRUIT-TREE LEAF-ROLLER. Common and general. Je, rarely Jl. General on trees and shrubs, often injurious to apple and pear.

7353b **A. mortuana** Kf. Castile, *Brad*; Ithaca; McLean. Je–Jl.

7354 **A. semiferana** Wlk. Newport; Ithaca; Albany; **LI**: Forest Pk., *Kch* (Fbs).

7387 **A. grisea** Rob. Ithaca, Je. Oak and Rudbeckia.

7359 **A. magnoliana** Fern. E. Aurora, *Wild* (Fbs); Rock City; Ithaca. Je. *Magnolia acuminata.*

7357 **A. melaleucana** Wlk. Peru; Castile, Je, *Brad* (Fbs); N. Elba; Batavia; E. Aurora; Vandalia; Rock City; Portage; Ithaca; McLean; Big Ind. Val.; Schuyler; New Windsor; **SI.** May–Je. Trillium and Polygonatum.

PANDEMIS Hübner

7336 **P. limitata** Rob. Buffalo (*Wild*); Ithaca; McLean; Schenectady. Je–Sep. General feeder, especially on trees.

7337 **P. lamprosana** Rob. E. Aurora, Buffalo (*Wild*); Ithaca; McLean; Schenectady; Albany; **SI.** Je–Aug.

7333 **P. canadana** Kf. E. Aurora, Buffalo, Je–Jl (*Wild*); Castile, Aug 3, 1924, *Brad* (Fbs).

FAMILY PHALONIIDAE

HYSTEROSIA Stephens

7547 **H. birdana** Bsk. E. Aurora (*Wild*); Ithaca (Fbs); **SI** (Bird). Aug. Crown of *Rudbeckia laciniata* (Bird).

7546 **H. terminana** Bsk. Buffalo (*Wild*); Ithaca; Slaterville; Catskills (Pears). Je–Aug.

7562 **H. modestana** Bsk. Alexandria Bay, Thousand Isls., late Je, *Kch* (Fbs); Ithaca.

7550 **H. baracana** Bsk. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Ithaca; McLean. Late Je–Aug.

7544 **H. cartwrightiana** Kf. E. Aurora (*Wild*); Slaterville; Ithaca; McLean. Jl.

PHARMACIS Hübner

7529 **P. vitellinana** Z. Peru, Black Br., Je (Fbs); Keene, *Wild* (Fbs).

PHALONIA Hübner

7461 **P. rutilana** Hbn. JUNIPER WEBWORM. **LI** (introduced about 1878). Je. Juniper.

7468 **P. labeculana** Rob. Ramapo. May.

7467 **P. argentilimitana** Rob. Ithaca. Jl 28–Aug 1, and early Sep.
7513 **P. biscana** Kf. Peru; Ithaca; McLean. Jl–Aug.
7462 **P. dorsimaculana** Rob. E. Aurora (*Wild*); Ithaca; Trenton Falls. Je–Sep.
7463 **P. promptana** Rob. Ithaca; **LI:** Forest Pk., *Kch* (Fbs). Je–Aug.
7466 **P. angulatana** Rob. Peru; Buffalo, Allegany Pk., *Wild* (Fbs); Slaterville; Ithaca; McLean. Jl–Oct.
7510 **P. rana** Bsk. Rye, Aug–Sep. Ironweed.
7454 **P. smeathmanniana** Fab. Newcomb; E. Aurora, *Wild* (Fbs); Ithaca. Jl – early Aug.
7446 **P. floccosana** Wlk. Ithaca. Je.
7447 **P. atomosana** Bsk. Ithaca; McLean. Aug.
7456 **P. louisiana** Bsk. Ramapo (Kf). May–Jl.
7449 **P. straminoides** Grt. (*zaracana* Kf.). Buffalo; E. Aurora (*Wild*); Ithaca; Trenton Falls. Aug.
7259 **P. plummeriana** Bsk. Peru. Je.
7478 **P. bunteana** Rob. Wells; Ithaca; Poughkeepsie. Je–Sep. *Lactuca scariola.*
7509 **P. albidana** Wlk. (*winniana* Kf.). Rock City; Ithaca; Trenton Falls. May–Jl.
7487 **P. oenotherana** Rly. Vic. NYC (Wat); **LI:** Glendale, *Kch* (Fbs). Ap; Jl; Sep. Evening primrose.
7531 **P. ednana** Kf. McLean. Je–Jl.
7481 **P. marloffiana** Bsk. Ithaca. Ap; Aug.
7482 **P. lavana** Bsk. Ithaca. Je and Aug. Penstemon.

COMMOPHILA Hübner

7496 **C. bana** Kf. **LI:** Forest Pk., late Aug, *Kch* (Fbs).

FAMILY CARPOSINIDAE

CARPOSINA Herrich-Schaeffer

7556 **C. fernaldana** Bsk. E. Aurora, Buffalo, Colden (*Wild*); Ithaca. Je–Aug. Nearly ripe currants (Sling).

BONDIA Newman

7554 **B. crescentella** Wlsm. Rock City, not rare (Fbs); Castile; McLean (Fbs); Big Ind. Val. May.

FAMILY COSSIDAE

ACOSSUS Dyar

8351 **A. centerensis** Lint. Peru; Batavia; Lestershire (Binghamton); Karner (type); **LI:** Brooklyn. Poplar.

PRIONOXYSTUS Grote

8354 **P. robiniae** Peck. CARPENTER WORM. Plattsburg; Peru; Ogdensburg; Brockport; Buffalo; E. Aurora (*Wild*); Ithaca; Oneonta; Albany; **SI; LI:** Brooklyn, common. One Ithaca specimen is practically var. *reticulatus* Lint. Je. In many trees, preferring soft woods.

8355 **P. macmurtrei** Guér. OAK CARPENTER WORM. Buffalo; Ithaca; Schoharie; Crugers; West Pt. (Ds); Newburgh; NYC; **SI; LI:** Brooklyn; Woodhaven; Newtown. Je. Oaks.

ZEUZERA Latreille

8339 **Z. pyrina** L. LEOPARD MOTH. NYC and north to Ossining in Westchester Co; also reported injurious to apple in Orange Co (Felt). Je–Jl. General feeder on trees.

FAMILY THYRIDIDAE

THYRIS Laspeyres

4888 **T. maculata** Harr. New Russia, *Jones*; Lancaster; E. Aurora, Gowanda (*Wild*); Castile, *Brad*; Newport; Debruce; Kingston; Poughkeepsie; Esopus; Ft. Montgomery, Ramapo (Ds); **LI.** End of May–Jl. Larva probably on Clematis.

4889 **T. lugubris** Bdv. Ithaca (Eyer); Karner; Bronxville; Van Cort. Pk. (Wat); **SI; LI:** Brooklyn; Wading R. Late May–Jl. Grape.

FAMILY PYRALIDIDAE

SUBFAMILY SCHOENOBIINAE

RUPELA Walker

5304 **R. albinella** Cr. **SI; LI:** Forest Pk., *Kch* (Fbs).

SCHOENOBIUS Duponchel

5309 **S. unipunctellus** Rob. **LI:** Forest Pk., Jl 26, 1923, large var., *Kch* (Fbs).

5311 **S. melinellus** Clem. Buffalo, *Wild*; Otto; Ithaca; McLean; **LI:** Forest Pk., *Kch* (Fbs). Je – early Aug.

5314 **S. longirostrellus** Clem. Newport; Newcomb; North Creek; Niagara Falls; E. Aurora, *Wild*; Otto; Ithaca; McLean; Little Falls; Albany; New Windsor; **LI:** Orient, *Lath.* Je–Jl.

SUBFAMILY CHRYSAUGINAE

TOSALE Walker

5277 **T. oviplagalis** Wlk. Allegany Pk., giant var. (*Wild*); Ithaca; **LI:** Cypress Hills, *Kch.* May–Jl.

GALASA Walker

5273 **G. nigrinodis** Z. Buffalo, *EPV* (Fbs); E. Aurora, *Wild* (Fbs); Ithaca; McLean; Big Ind. Val.; Schenectady; Nassau; Highland; New Windsor; Florida; Katonah; NYC. Je – early Aug; Sep.

ARTA Grote

5285 **A. statalis** Grt. **LI:** Coram, Jl 17, 1921, *Kch* (Fbs).

CONDYLOLOMIA Grote

5297 **C. participialis** Grt. Allegany Pk., *Wild* (Fbs); Rock City; Ithaca; Katonah. Je–Aug.

POLLOCCIA Dyar

5296 **P. alticolalis** Dyar. Jamestown, *McElhose* (Dyar); Ithaca (Fbs); McLean (Fbs). Jl–Aug.

SUBFAMILY GALLERIINAE

GALLERIA Fabricius

5448 **G. mellonella** L. BEE MOTH. Commonly distributed throughout the State. Larvae in ill-kept beehives, eating and webbing up the comb; also a scavenger in waste wax, etc.

PARALISPA Butler

5450 **P. terrenella** Z. Ithaca; McLean; vic. Albany. End Je–Aug.

5452 **P. decorella** Hulst. Buffalo (Grt).

SUBFAMILY GLAPHYRIINAE

GLAPHYRIA Hübner

4899 **G. glaphyralis** Guen. Rochester, *Angle*; West Falls (*Wild*); Otto; Ithaca. Jl–Aug.

4900 **G. sesquistrialis** Hbn. Ithaca; Ulster Co. Je–Aug; Oct.

4902 **G. psychicalis** Hulst. **LI:** Coram, Jl 17, 1921, *Kch* (Fbs).

4901 **G. lentiflualis** Z. **LI:** Coram, Jl 17, 1921, *Kch* (Fbs).

4904 **G. fulminalis** Led. "NY" (Grt). Late Je–Jl.

LIPOCOSMA Lederer

4913 **L. sicalis** Wlk. "NY" (AM). May–Jl.

4914 **L. fuliginosalis** Fern. Grand I. (*Wild*); Otto; Allegany Pk. (*Wild*); McLean; **LI:** Forest Pk., *Kch* (Fbs). Je; Sep.

DICYMOLOMIA Zeller

5444 **D. julianalis** Wlk. Portage; Ithaca; New Windsor; Riverdale; Bronxville. Late Je–Aug. Cattail heads.

SUBFAMILY PYRAUSTINAE

HYMENIA Hübner

4919 **H. perspectalis** Hbn. SPOTTED BEET-WEBWORM. Keene, Buffalo, E. Aurora (*Wild*); Ithaca, Aug, *Babiy* (Fbs). Late autumn. Larva on beet and chard; in greenhouses also on Alternanthera.

4920 **H. fascialis** Cr. HAWAIIAN BEET-WEBWORM. **LI:** Glendale, Sep, *Kch.* A stray from the South. Beet, chard, mangels, Amaranthus, and various weeds.

DESMIA Westwood

4921 **D. funeralis** Hbn. GRAPE LEAF-ROLLER. Lewiston; Honeoye Falls (Angle); Buffalo; Niagara Falls; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Onteora Mt.; Schenectady; Rhinebeck; New Windsor; Pearl R.; Katonah; **LI:** Forest Pk., *Kch.* May–Oct. Grape; more rarely on Oenothera and Cercis.

DIASTICHTIS Hübner

4933 **D. argyralis** Hbn. Albany; New Windsor; Poughkeepsie; Crugers; Pearl R.; **SI:** Clove Val.; **LI:** East N. Y.; Orient, *Lath.* Jl.

BLEPHAROMASTIX Lederer

4955 **B. ranalis** Guen. Buffalo; E. Aurora, Gowanda (*Wild*); Ithaca; Poughkeepsie; New Windsor; NYC; **LI:** Forest Pk. and Glendale, *Kch* (Fbs). Jl. Chenopodium.

4956 **B. stenialis** Guen. Buffalo, Gowanda (*Wild*); New Windsor. Je–Jl.

PANTOGRAPTA Lederer

4960 **P. limata** G. & R. Vic. Buffalo; Grand I., Allegany Pk. (*Wild*); Ithaca; Big Ind. Val.; Ilion; Poughkeepsie; New Windsor; **LI.** Je–Aug. Linden.

PILOCROCIS Lederer

4937 **P. ramentalis** Led. Ithaca, Oct–Nov. A stray from the South.

EUDIOPTIS Hübner

(*Diaphania*)

4974 **E. nitidalis** Cr. PICKLE WORM. Albany, Aug. Cucurbitaceae.

4977 **E. hyalinata** L. MELON WORM. Buffalo; **LI:** Brooklyn. On melon.

4978 **E. quadristigmalis** Guen. Ithaca; New Windsor; **LI:** Cypress Hills, *Kch.*

CONDYLORRHIZA Lederer

5061 **C. vestigialis** Guen. Ithaca. Willow (Murt).

METREA Grote

4980 **M. ostreonalis** Grt. Peru, Jl, *Everett.*

EVERGESTIS Hübner

5004 **E. straminalis** Hbn. PURPLE-BACKED CABBAGE WORM. Common everywhere. May–Sep. Cruciferae.

5000 **E. rimosalis** Guen. CROSS-STRIPED CABBAGE WORM. **LI.**

CROCIDOPHORA Lederer

5005 **C. serratissimalis** Z. Newport; vic. Buffalo; Otto; Potter Swamp; Ithaca; Schenectady; Poughkeepsie; New Windsor; NYC. Je–Sep.

5008 **C. tuberculalis** Led. Buffalo; Lancaster; Ithaca; New Windsor; **LI.** Je–Jl.

SAMEODES Snellen

4985 **S. adipaloides** G. & R. Buffalo; Ithaca; McLean; Big Ind. Val.; Schenectady; Rhinebeck. Jl–Sep.

NOMOPHILA Hübner

5012 **N. noctuella** Schiff. Very common throughout the State. Je–Oct. General feeder on low plants, especially Polygonum.

LOXOSTEGE Hübner

5101 **L. helvalis** Wlk. **LI:** Forest Pk., Glendale, Je, *Kch* (Fbs). Sep.

5025 **L. similalis** Guen. GARDEN WEBWORM. Saranac Inn; Ithaca; Albany; Nassau; **LI:** Woodhaven; Glendale and Coram, *Kch* (Fbs). General feeder.

5031 **L. sticticalis** L. SUGAR-BEET WEBWORM. Ithaca; Big Ind. Val.; **LI:** E. New York. General feeder.

5032 **L. commixtalis** Wlk. "NY" (Grt).

5018 **L. chortalis** Grt. Black Br.; Uphill Br., Mt. Marcy; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Clayton; Buffalo; Niagara Falls (Wild); Ithaca; Big Ind. Val.; Onteora Mt.; Karner; Albany; Rhinebeck; New Windsor. May–Aug.

5016 **L. dasconalis** Wlk. New Windsor; **LI:** Central Pk., *Kch* (Fbs). Je–Aug. Baptisia.

5020 **L. marculenta** G. & R. General. May–Aug. Solidago.

THOLERIA Hübner

5064 **T. reversalis** Guen. Ithaca; Oneonta; New Windsor; **SI; LI:** Glen Cove (in a conservatory). Je–Jl. Baptisia and Lonicera.

PERISPASTA Zeller

5087 **P. caeculalis** Z. Ithaca, Jl 3, '25 (*Fbs*). Je–Aug.

CINDAPHIA Lederer

5103 **C. bicoloralis** Guen. Elba (Wild); E. Aurora, Buffalo (*Wild*); Lancaster; Ithaca; McLean (Fbs); Big Ind. Val.; Albany; Rhinebeck; Poughkeepsie; New Windsor; NYC; **LI:** Orient, *Lath.* May–Sep.

PHLYCTAENIA Hübner

5088 **P. rubigalis** Gn. (*ferrugalis* auct.). CELERY LEAF-TIER. Rochester; Brockport; Buffalo; E. Aurora, Allegany Pk. (Wild); Crosby; Ithaca; Auburn; Big Ind. Val.; Albany; Hudson Falls (NYS); Pearl R.;

New Windsor; NYC; **LI:** Forest Pk., *Kch* (Fbs); Lynbrook (NYS). Common all the year. General feeder on herbs; often injurious to greenhouse plants.

5098 **P. acutella** Wlk. Vic. Buffalo; Potter Swamp; Ithaca; McLean; Karner; Nassau; New Windsor. Je–Aug.

5099 **P. terrealis** Tr. Peru; North Creek; Adirondack Lodge, *Bish*; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Buffalo; Lancaster; Jamestown; Crosby; Ithaca; McLean; Big Ind. Val.; Onteora Mt.; Ft. Edward; Schenectady; Rhinebeck; New Windsor; **LI:** Jamaica, Forest Pk., *Kch* (Fbs). May; Aug. Solidago.

5100 **P. extricalis** Guen. Peru; Newcomb; McLean; Big Ind. Val.; Schenectady; **LI:** Belmont Pk., Wyandanch, Glendale, *Kch* (Fbs). May–Je; Jl; Sep. Alder.

5022 **P. helvialis** Wlk. Black Br.; Allegany Pk., *Wild* (Fbs); Ithaca; McLean; Neversink. Jl – early Aug. Poplar.

5116 **P. theseusalis** Wlk. Mt. Marcy; Lewis Co; Lewiston; Ithaca; Karner; Hudson Falls (NYS); Rhinebeck; Katonah; New Windsor. Jl. Ferns.

5102 **P. tertialis** Guen. Common everywhere. May–Jl; Aug. Elder.

5132 **P. fumalis** Guen. Wilmington; Saranac L.; Old Forge; Newcomb; North Creek; Fentons; Adirondack Lodge, *Bish*; Honeoye Falls; E. Aurora; Oak Orchard Swamp; Ithaca; Big Ind. Val.; Karner; New Windsor. Je–Sep.

PYRAUSTA Schranck

5111 **P. pertextalis** Led. Fentons; Rochester, *Angle*; Honeoye Falls; Buffalo; E. Aurora; Ithaca; Big Ind. Val.; Albany; New Windsor; NYC; **LI:** Lynbrook; Forest Pk., *Kch* (Fbs). Two broods, flying mainly in Je and Aug. Juglans, Asarum, Cornus, and nettle (Wild).

5114 **P. thestealis** Wlk. Mt. Marcy; Lewis Co; Lewiston; Buffalo; E. Aurora; Ithaca; Karner; Rhinebeck; Katonah; New Windsor; **LI:** Orient, Oct, *Lath.* Je–Jl. Corylus, linden, and Evonymus.

5112 **P. fissalis** Grt. Rochester, *Angle*; E. Aurora, Niagara Falls, Gowanda (*Wild*); Castile, *Brad*; Otto; Ithaca; McLean; Utica; Little Falls; Catskills; **LI:** Jamaica, *Kch* (Fbs). Je–Aug. Sassafras and goldenrod; wild bergamot (Wild).

5113 **P. aeglealis** Wlk. Rochester, *Angle*; Buffalo (EPV); Liberty (Morton); Ithaca; McLean; **SI:** Buck's Hollow. Je–Aug. Phytolacca.

5119 **P. flavidalis** Guen. Florida; New Windsor; **LI.** Late Jl–Aug. Vernonia.

5129 **P. penitalis** Grt. Stuyvesant, Hopewell Jct. (NYS); **LI:** Lynbrook; Orient, *Lath.* Water lily and Nelumbo; rarely in other aquatic plants.

—— **P. ainslei** Hein. Dr. Felt reports the following distribution: Lockport; N. Collins; Ithaca; Schenectady; Ballston L.; Scotia; Albany; Nassau; Stuyvesant Falls; Hopewell Jct. The species is doubtless generally distributed south of the Adirondacks. May; Aug–Sep. Polygonum.

—— **P. nubilalis** Hbn. EUROPEAN CORN-BORER. This introduced pest was first discovered at Scotia, Schenectady Co., Jan 1919, and at N. Collins, Erie Co, Sep 1919. It now occurs in the western part of the State from L. Erie to Monroe, Livingston, Wyoming, and Allegany Counties. In the eastern part of the State it occurs in Washington, Rensselaer, Saratoga, Albany, Schoharie, Montgomery, Fulton, and southern Hamilton Counties. It has been recorded also from southern Herkimer, Mad-

ison, Otsego, and Ulster Counties. Larva a serious pest in corn and other coarse herbaceous plants.

5125 **P. illibalis arsaltealis** Wlk. Buffalo; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; New Windsor. May–Jl.

5134 **P. futilalis** Led. Peru; Mt. Marcy; Lewis Co; Keene, *Wild* (Fbs); Lewiston; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Crosby (NYS); Ithaca; Karner (yellow form); Albany; Poughkeepsie; New Windsor. Je–Jl.

5135 **P. fumoferalis** Hulst. Mt. Marcy; Lewis Co; Ithaca; Schenectady. Je–Jl. Presumably on hickory.

5140 **P. unifascialis subolivalis** Pck. Peru; Axton; Fentons; Lancaster; West Falls; E. Aurora; Liberty; Portage; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Karner; Nassau; Rhinebeck; New Windsor. Je–Jl.

5142 **P. fodinalis** Led. Lewiston; E. Aurora (*Wild*); Lancaster; Buffalo; Ithaca; Big Ind. Val.; Onteora Mt.

5145 **P. phoenicealis** Hbn. "NY" (Wlk). Apple.

5148 **P. acrionalis** Wlk. Old Forge; Newport; Honeoye Falls, *Angle*; Buffalo, E. Aurora (*Wild*); Speculator; Lancaster; Otto; McLean (Fbs); Ithaca; Big Ind. Val.; Utica; Rhinebeck; Ft. Montgomery; NYC. Je–Sep.

5155 **P. ochosalis** Hol. N. Elba; Oak Orchard Swamp; E. Aurora, Niagara Falls (*Wild*); Ithaca. Je–Aug.

5154 **P. generosa** G. & R. Fentons; Newport; Lancaster; Buffalo; Karner; Sloatsburg. I have verified none of these records, which may belong wholly, or in part, to *P. ochosalis*.

5157 **P. laticlavia** G. & R. "NY" (Grt). Aug.

5158 **P. tyralis** Gn. E. Aurora, Lancaster, Allegany Pk. (Wild).

5162 **P. signatalis** Wlk. Lewiston; Niagara Falls, Buffalo (*Wild*); New Windsor, *Morton*. May; Aug–Sep. Horse mint.

5171 **P. unimacula** G. & R. Ramapo; Brewster (Grt). End May–Aug.

5152 **P. subsequalis** Guen. Black Br. (male). Je–late Jl. Thistle.

5152a **P. subsequalis** Guen. var. **madestisalis** Wlk. Black Br.; Saranac L.; Ithaca; Big Ind. Val.; Ilion; Schuyler; Nassau; Rhinebeck; New Windsor; Suffern; NYC; **SI:** Tottenville; **LI:** Cypress Hills, *Kch*. Ap–Jl.

5176 **P. funebris** Ström. Very common everywhere. Je–Jl. Solidago.

5175 **P. niveicilialis** Grt. Orchard Pk., West Falls, Gowanda (*Wild*); Crosby; Ithaca; Albany; Poughkeepsie; New Windsor; **LI:** Forest Pk., *Kch*. May–Je; Aug.

BOEOTARCHA Meyrick

—— **B. demantrialis** Druce. Ithaca; **LI:** Glendale, *Kch* (Fbs). Jl–Aug.

LOXOSTEGOPSIS Dyar

—— **L. merrickalis** B. & McD. Ithaca, Jl.

THELCTERIA Lederer

5178 **T. pupula** Hbn. Kinderhook, Sep, *Bish*; Poughkeepsie; New Windsor; **LI:** Brooklyn; E. New York; Forest Pk., Je 24, *Kch*; Orient, Aug 1, *Lath*.

SUBFAMILY NYMPHULINAE

NYMPHULA Schranck

5209 **N. ekthlipsis** Grt. Ithaca; Michigan Swamp, Danby; Albany. Sedge.

5208 **N. icciusalis** Wlk. Saranac L.; Saranac Inn; Lancaster; Buffalo, E. Aurora (Wild); Otto; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Nassau; Rhinebeck; New Windsor; **LI:** Cold Sp. (*Kch*). Je–Aug. Potamogeton, sedge, Lemna, Menyanthes, and other aquatic plants.

5204 **N. obliteralis** Wlk. WATER-LILY LEAF-CUTTER. Hemlock L.; Rhinebeck; **LI:** Forest Pk., *Kch* (Fbs). Usually a greenhouse pest northward, but the Hemlock L. specimens, at least, were taken outdoors. Water lilies, sometimes injurious.

5206 **N. gyralis** Hulst. Big Tupper L.; Saranac L.; Lewiston; Castile, *Brad.* Water lily.

5198 **N. maculalis** Clem. Saranac L.; Big Tupper L.; Lewis Co; Spencer L. Water lilies.

5200 **N. obscuralis** Grt. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Waddington; Potter Swamp; Ithaca. Potamogeton and Vallisneria.

5202 **N. badiusalis** Wlk. Saranac L.; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Waddington; Lake Bluff; N. Fair Haven; Buffalo; Grand I. (*Wild*); Hemlock L.; Ithaca; McLean; Rhinebeck; Ulster Co (Dyar). Jl–Aug.

ELOPHILA Hübner

5216 **E. magnificalis** Hbn. "NY" (Grt). Jl.

5212 **E. bifascialis** Rob. Waddington; Honeoye Falls; Buffalo (*Wild*); Ithaca. Aug–Sep.

5217 **E. fulicalis** Clem. Peru; Waddington; Lancaster; Niagara Falls; Buffalo, E. Aurora (*Wild*); Jamestown; Honeoye Falls; Ithaca. Je–early Sep. Larva on rocks under water.

DIATHRAUSTA Lederer

5226 **D. reconditalis** Wlk. Niagara Falls; Ithaca; Albany; Pearl R. Je–Jl; Sep.

GESHNA Dyar

5225 **G. primordialis** Dyar. Vandalia; Crosby; Ithaca; McLean; Big Ind. Val. Je–Jl.

SUBFAMILY SCOPARIINAE

SCOPARIA Haworth

5235 **S. centuriella** Schiff. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Plattsburg; Peru; Newcomb; Essex Co; Saranac Inn; Fentons; Rochester; Buffalo; Ithaca; New Windsor. End Je–Jl.

5238 **S. penumbralis** Dyar. North Creek; Rock City; Vandalia; McLean. Je.

5244 **S. basalis** Wlk. Adirondacks and Albany (unverified); Alexandria Bay, Thousand Isls., *Kch* (Fbs); Niagara Falls; Lewiston; Hemlock L.; Rock City; Otto; Crosby; Ithaca; McLean; Big Ind. Val.; Rhinebeck; New Windsor; NYC; **LI:** Forest Pk., *Kch* (Fbs). Je–Sep. Common on tree trunks.

5239 **S. cinereomedia** Dyar. E. Aurora, West Falls (*Wild*); Otto; Ithaca. Jl
5241 **S. strigalis** Dyar. Ithaca, Jl–Aug.
5242 **S. lugubralis** Wlk. McLean(?), female, Je–early Aug.

SUBFAMILY **PYRALIDINAE**

PYRALIS Linnaeus

5253 **P. farinalis** L. MEAL SNOUT-MOTH. Generally distributed, Jl, etc. Larva injurious to meal, etc.
5254 **P. costiferalis** Wlk. Saranac Inn; Ithaca; Big Ind. Val.; Albany. Jl–Aug.
5255 **P. disciferalis** Dyar. Ithaca, Jl.

AGLOSSA Latreille

5250 **A. cuprina** Z. Alexandria Bay, Thousand Isls., *Kch* (Fbs); Buffalo (*Wild*); Ithaca; Rhinebeck. Je–Sep.
5249 **A. suprealis** Hbn. Mt. Marcy (Hill Coll.); Buffalo, *EPV* (Fbs); Ithaca; Poughkeepsie (NYS); New Windsor, *Morton*; **LI:** Brooklyn; Glendale (Kch); Orient, *Lath.* Je–Jl.

HYPSOPYGIA Hübner

5259 **H. costalis** Fab. CLOVER HAY WORM. Ogdensburg; Lewiston; E. Aurora; Buffalo; Castile, *Brad*; Sherwood, Cayuga Co; Ithaca; Gloversville; Big Ind. Val.; Onteora Mt.; vic. Albany; Amenia (NYS); Rhinebeck; N. Hillsdale; New Windsor. Stored hay.

HERCULIA Walker

5261 **H. intermedialis** Wlk. Mt. Marcy; Fentons; Buffalo; Ithaca; Hastings; New Windsor; Katonah; **LI:** Glendale, *Kch* (Fbs). Je–early Aug.
5268 **H. olinalis** Guen. Lancaster; Peru; Ithaca; Big Ind. Val.; Schenectady; New Windsor; NYC; **SI:** Clove Val.; **LI:** Forest Pk., *Kch* (Fbs). Je–Jl.
5264 **H. thymetusalis** Wlk. Saranac Inn; Mt. Marcy; Fentons; Albany; New Windsor.

SUBFAMILY **ANCYLOLOMIINAE**

PRIONAPTERYX Stephens

5322 **P. nebulifera** Steph. Karner; **LI:** Yaphank; Coram, *Kch* (Fbs). May–Aug, Oct. Sand-barren Ericaceae.

SUBFAMILY **CRAMBINAE**

DIATRAEA Guilding

5431 **D. comptulalis** Hulst. Ithaca.
5432 **D. forbesellus** Fern. Buffalo. Scirpus.
5440 **D. alleni** Fern. Newport; Big Ind. Val.

CHILO Zincken

5430 **C. plejadellus** Zinck. Ithaca, Jl. Rice and presumably other swamp grasses.

ARGYRIA Hübner

5419 **A. nivalis** Dru. Newcomb; North Creek; Newport; Locust L.; Lewiston; Lancaster; E. Aurora, Salamanca (*Wild*); Ithaca; McLean; Big Ind. Val.; Utica; Schenectady; Little Falls; Hebron (Wls); Albany; Rhinebeck; New Windsor; Katonah; NYC; **LI**: Cypress Hills, *Kch.* Je–Aug.

5421 **A. auratella** Clem. Salamanca (*Wild*); Ithaca; McLean; Albany; Rhinebeck; Katonah. Jl.

—— **A. critica** Fbs. McLean; Ithaca; Utica; **LI**: Coram, *Kch* (Fbs); Orient, Sep, *Lath.* Jl.

THAUMATOPSIS Morrison

5403 **T. pexella** Z. New Windsor, *Morton.*

CRAMBUS Fabricius

5358 **C. laqueatellus** Clem. Common everywhere. Je–early Jl. Larva on moss, refusing grass.

5356 **C. myellus** Hbn. Karner, Jl.

5355 **C. agitatellus** Clem. N. Elba; summit of Mt. Marcy; Newcomb; North Creek; Rock City; Ithaca; McLean; Trenton Falls; Schenectady; New Windsor; Crugers; **LI**: Lynbrook. Jl.

5353 **C. alboclavellus** Z. Adirondack Lodge; Keene; Newport; Lewiston; Buffalo; West Falls; Potter Swamp; Ithaca; McLean; Big Ind. Val.; Utica; Schenectady; New Windsor; Ft. Montgomery; Katonah; **LI**: Cypress Hills. Jl–Aug. Grass.

5348 **C. labradoriensis** Christoph. "NY" (type of *dissectus* Grt.).

5347 **C. bidens** Z. Niagara Falls; McLean. Aug.

5344 **C. praefectellus** Zinck. Common everywhere. Je; Aug.

5342 **C. leachellus** Zinck. Wilmington; Saranac L.; Newport; Ithaca; NYC; **LI**: Yaphank. Je–Jl.

5343 **C. unistriatellus** Pck. Saranac Inn; North Creek; Newport; Trenton Falls; Schenectady.

5341 **C. girardellus** Clem. Saranac Inn; Adirondack Lodge; Newcomb; North Creek; Fentons; Rochester, *Angle*; Batavia; West Falls; Orchard Pk.; Allegany Pk.; Rock City; Otto; Castile; Ithaca; McLean; Trenton Falls; Liberty; Big Ind. Val.; Schenectady; Nassau; Ft. Montgomery; New Windsor; Katonah; NYC; **LI**: Cypress Hills. Je–Jl.

5338 **C. floridus** Z. Ithaca; McLean. Je–Jl. Grass.

5336 **C. hamellus** Thunb. Saranac Inn; Albany. Aug.

5362 **C. albellus** Clem. Buffalo; Orchard Pk.; Salamanca; Rock City; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Schenectady; Poughkeepsie; New Windsor. Je–Jl. Grass.

—— **C. biguttellus** Fbs. Ithaca, Aug.

5332 **C. satrapellus** Zinck. Buffalo, Salamanca, Jl (*Wild*).

5366 **C. elegans** Clem. Wilmington; Speculator; Buffalo, E. Aurora (*Wild*); Otto; Ithaca; McLean; Katonah; New Windsor; NYC; **SI; LI:** Forest Pk., *Kch* (Fbs). Jl–Sep. Grass.

5367 **C. polingi** Kf. E. Aurora, *Wild* (Fbs); Ithaca; McLean. Jl.

5365 **C. turbatellus** Wlk. E. Aurora, West Falls (Wild); Otto; Rock City; Allegany Pk. (*Wild*); Ithaca; McLean; Big Ind. Val. Jl.

5364 **C. perlellus innotatellus** Wlk. Wilmington; N. Elba; Saranac Inn; Newcomb; Newport; Otto; Big Ind. Val.; Onteora Mt. Jl–Aug. Grass.

5372 **C. teterrellus** Zinck. "NY" (AM). Je–Jl. Grass.

5373 **C. decorellus** Zinck. Ithaca; New Windsor. Jl–Aug.

5368 **C. vulgivagellus** Clem. Common and general. Aug–Sep. Various grasses and grains.

5371 **C. ruricolellus** Z. Ausable L.; Wilmington; Saranac Inn; Honeoye Falls; Batavia; Buffalo; E. Aurora; Allegany Pk.; Hemlock L.; Ithaca; McLean; Liberty; Big Ind. Val.; Onteora Mt. Aug–Sep. Grass and sorrel.

5384 **C. mutabilis** Clem. Peru; Newport; Lancaster; E. Aurora; Buffalo; Otto; Rock City; Ithaca; McLean; Big Ind. Val.; New Windsor; NYC; **LI:** Forest Pk., *Kch* (Fbs). End of Je – Sep. Grass.

5361 **C. hortuellus topiarius** Grt. Common and general. Je–Aug. Various low plants; sometimes injurious to cranberry.

5362 **C. trisectus** Wlk. Newport; Fentons; Newcomb; North Creek; Honeoye Falls; Batavia; Buffalo; Lewiston; Otto; Ithaca; McLean; Big Ind. Val.; Little Falls; Schenectady; Nassau; Rhinebeck; New Windsor; **LI:** Lynbrook. Je, Aug (Jl, Sep, in 1924). Grass.

5397 **C. caliginosellus** Clem. E. Aurora; Buffalo; Irving; Lancaster; Otto; Ithaca; McLean; Saratoga Sps.; Nassau; Troy; Greenwich; Millerton, Pine Plains, Salt Pt. (NYS); New Windsor. Je – end of Aug. Sometimes injurious to young corn.

5398 **C. zeellus** Fern. Adirondack Lodge; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Batavia; Ithaca; McLean; Big Ind. Val.; Little Falls; Albany; Rhinebeck; Katonah; **SI.** Je–Aug. Injurious to corn. This and *C. caliginosellus* are really only varieties of *C. luteolellus.*

5399 **C. luteolellus** Clem. Peru; Newcomb; Alexandria Bay, Thousand Isls., *Kch* (Fbs); Adirondack Lodge; E. Aurora; Buffalo; Gowanda; Jamestown; Auburn; Aurora; Ithaca; McLean; Utica; Hyndsville; Little Falls; Katonah. Je–Aug.

RAPHIPTERA Hampson

5331 **R. argillaceella** Pck. McLean Bogs.

SUBFAMILY EPIPASCHIINAE

EPIPASCHIA Clemens

5467 **E. superatalis** Clem. New Windsor; Chappaqua; **LI:** Glendale, *Kch* (Fbs).

ONEIDA Hulst

5476 **O. lunulalis** Hulst. Ithaca, Je–Aug.

TETRALOPHA Zeller

5490 **T. asperatella** Clem. E. Aurora; Allegany Pk.; Rock City; Ithaca; New Windsor, *Morton*. Je–Aug. Oak, maple, elm, and beech.

5483 **T. melanogrammos** Z. Ithaca; New Windsor, *Morton*. Jl – early Aug. Shrubby Leguminosae (Gleditsia, Prosopis).

5489 **T. militella** Z. Ithaca; Ilion; Rhinebeck (Dyar); Onteora Mt. Platanus.

5496 **T. baptisiella** Fern. "NY" (Fern). Baptisia.

SUBFAMILY PHYCITINAE

MYELOIS Hübner

5509 **M. bistriatella** Hulst (*bilineatella* Rag.). "NY", Je (Ragonot, Hulst).

RHODOPHAEA Guenée

5518 **R. exsulella** Z. Ithaca, Jl 10 (Fbs).

ACROBASIS Zeller

5532 **A. angusella** Grt. Ithaca(?) (female only); West Farms (type); **LI:** Brooklyn. Je–Jl. Hickory.

5533 **A. demotella** Grt. Ithaca; West Farms. Je–Jl. Black walnut.

5532 **A. eliella** Dyar. Ithaca. Je–Jl; Aug.

5531 **A. aurorella** Ely. Ithaca; Ilion; **LI:** Glendale, *Kch* (Fbs). Jl–Aug.

5530 **A. stigmella** Dyar. Buffalo, Jl, *Wild* (Fbs); Ithaca, Aug (Fbs). Hickory.

5528 **A. caryivorella** Rag. Ithaca, Aug 23 (Fbs). Hickory.

5541 **A. caryae** Grt. "NY" (Grt). Je. *Carya porcina.*

5520 **A. kearfottella** Dyar. E. Aurora, *Wild* (Fbs); Ithaca. Jl–Aug. Hickory.

5521 **A. feltella** Dyar. Warner (NYS).

5523 **A. palliolella** Rag. Ithaca, Jl (Fbs). Walnut and pecan.

5537 **A. latifasciella** Dyar. McLean (a little doubtful without breeding record). Je – early Jl; Aug. Hickory.

5543 **A. rubrifasciella** Pck. Ithaca. Aug. Determination uncertain, lacking bred material.

5544 **A. comptoniella** Hulst. Rhinebeck. Sweet fern and bayberry.

5542 **A. betulella** Hulst. Buffalo, E. Aurora (*Wild*); Ithaca. End of Jl. Birch.

5548 **A. tricolorella** Grt.[64] Ithaca; Catskills. Jl.

5553 **A. indigenella** Z. (*Mineola*). APPLE LEAF-CRUMPLER. Ithaca; Big Ind. Val.; S. Byron (NYS); Schenectady; Albany. Jl. Sometimes injurious to apple, and eats most other Rosales.

DIORYCTRIA Zeller

(*Pinipestis* Hulst)

5569 **D. zimmermani** Grt. ZIMMERMAN'S PINE MOTH. Oswego Co; Gowanda; Cheektowaga; Hamburg; Clarence Center; Buffalo; Ithaca; Karner; Schenectady; Hastings; Tarrytown. Aug. Pine.

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[64] This is the species so determined by Ragonot and others. It stands in the U. S. National Museum as *scitulella* Hulst.

—— **D. n. sp.** Ithaca, Aug (div.) Predacious on white-pine weevil (TCBarnes).

5565 **D. abietella** Fab. Buffalo, Jl, *EPV*; **LI:** Great Neck and Garden City, on pine (*Hein*).

GLYPTOCERA Ragonot

5585 **G. consobrinella** Z. McLean. End of May – Aug.

NEPHOPTERYX Hübner

5596 **N. ovalis** Pck. Cincinnatus, *Dnd* (Fbs); Ithaca; McLean; Rhinebeck; Delmar. Late Jl–Aug.

TLASCALA Hulst

5610 **T. reductella** Wlk. E. Aurora, *Wild* (Fbs); Ithaca; New Windsor. May. Gleditsia.

MEROPTERA Grote

5614 **M. pravella** Grt. E. Aurora; Ithaca; McLean; Lancaster; New Windsor. Mar–Jl(?). Willow or *Rhus Cotinus*.

5615 **M. unicolorella** Hulst. Ithaca. Late May–Aug.

SALEBRIA Zeller

5631 **S. contatella** Grt. Peru; Keene, E. Aurora, *Wild* (Fbs); Ithaca; Albany; New Windsor; **LI:** Forest Pk., *Kch* (Fbs). May–Jl; Aug. Locust.

—— **S. leucochrysella** Hulst ms. Ithaca, Jl–Aug (Fbs).

5638 **S. semiobscurella** Hulst. "NY". Jl. Sumac.

5630 **S. carneella** Hulst. Ithaca, Jl 11, 1924 (Fbs). Willow.

IMMYRLA Dyar

5617 **I. nigrovittella** Dyar. Ithaca. May–Jl.

MYRLAEA Ragonot

5650 **M. vetustella** Dyar. Ithaca, May.

LAODAMIA Ragonot

5653 **L. fusca** Haw. Waterville; Rochester; Ithaca. Jl–Aug. Vaccinium and willow.

ELASMOPALPUS Blanchard

5657 **E. lignosellus** Z. LESSER CORN-STALK BORER. Ithaca, Je 11, 1924 (a stray?).

MELITARA Walker

5693 **M. prodenialis** Wlk. Southern NY, end of Jl. Opuntia.

ZOPHODIA Hübner

5705 **Z. grossulariae** Rly. GOOSEBERRY FRUIT-WORM. Lancaster (EPV). Currants and gooseberries.

EUZOPHERA Zeller

5722 **E. ostricolorella** Hulst. "NY" (Hulst). May–Jl. Bark of the trunk of tulip tree.

5721 **E. ochrifrontella** Z. Ithaca; McLean; **LI**: Forest Pk., *Kch* (Fbs). May; Jl–Aug.

5720 **E. semifuneralis** Wlk. AMERICAN PLUM BORER. Lancaster (EPV); Ithaca; McLean; Kinderhook. Aug–Sep. Peach and plum.

VITULA Ragonot

5726 **V. edmandsii** Pck. Buffalo; Ithaca; McLean. Je–Oct. Larvae in bumblebee nests.

LAETILIA Ragonot

5730 **L. coccidivora** Comst. Albany. Larva feeding on soft scales (Pulvinaria).

CANARSIA Hulst

5734 **C. ulmiarrosorella** Clem. Peru; North Creek; Otto; Ithaca; McLean; New Windsor. End of Je–Aug. Elm, rarely hickory.

HULSTIA Ragonot

5743 **H. undulatella** Clem. Niagara Falls; Kinderhook; **LI**: Forest Pk., *Kch* (Fbs). Jl–Aug.

HOMOEOSOMA Curtis

5772 **H. stypticellum** Grt. Fentons; Ithaca. Je–Jl. Larvae apparently in the panicles of *Rhus glabra.*

5765 **H. uncanale** Hulst. Ithaca, Aug (Fbs).

5771 **H. mucidellum** Rag. Ithaca, Jl–Sep. Gnaphalium and apparently in chicory seed.

EPHESTIA Guenée

5799 **E. kuehniella** Z. MEDITERRANEAN FLOUR-MOTH. Castile; Ithaca; undoubtedly generally distributed. Sometimes in injurious numbers. Usually in meal, showing a decided preference for rolled wheat.

5801 **E. cautella** Wlk. Albany. Larva commonest in dried figs.

5804 **E. elutella** Hbn. Albany. Rotten wood.

EPHESTIODES Ragonot

—— **E. n. sp.** Ithaca; McLean. Aug.

5781 **E. infimella** Rag. Ithaca(?), Je. Seeds of Ambrosia.

MOODNA Hulst

5795 **M. ostrinella** Clem. Rochester; E. Aurora (*Wild*); Otto; Ithaca. Late Jl–Aug. Sumac heads (Cy), and acorns (Murt).

5795 **M. pelviculella** Hulst. Irving, *Wild* (Fbs); Ithaca. Jl–Aug.

PLODIA Guenée

5807 **P. interpunctella** Hbn. INDIAN MEAL MOTH. Common generally. Stored grain, occasionally on other dried foods.

SUBFAMILY ANERASTIINAE

PEORIA Ragonot

5834 **P. bipartitella** Rag. **LI**: Coram, Jl 17, 1921, pink var., *Kch* (Fbs).

5835 **P. approximella** Wlk. Peru; Lancaster; E. Aurora; Buffalo; Allegany Pk.; Castile; Ithaca; McLean; Big Ind. Val.; Rhinebeck; New Windsor; Katonah. Je–Aug.

FAMILY PTEROPHORIDAE: THE FEATHER-WINGS

PLATYPTILIA Hübner

5881 **P. pallidactyla** Haw. Peru; Newcomb; North Creek; Black Br.; Adirondack Lodge; Rochester, *Angle*; Buffalo; Rock City; Castile, Je, *Brad* (Fbs); Potter Swamp; Portage; Ithaca; McLean; Karner; Albany; **LI**: Orient, *Lath.* Je–early Aug. Yarrow and Senecio.

—— **P. auriga** B. & L. Ithaca, May–Sep.

5870 **P. tesseradactyla** L. Castile, Je, *Brad* (Fbs); Crosby; Ithaca; W. Danby; Karner. May. Gnaphalium.

5869 **P. carduidactyla** Rly. **LI**: Glendale, Aug 24, 1919, *Kch* (Fbs). Thistle.

5864 **P. acanthodactyla** Hbn. E. Aurora; Buffalo; Otto, West Farms (doubtful). May. Ononis, Pelargonium, Euphrasia, and other mints.

OXYPTILUS Zeller

5857 **O. periscelidactylus** Fitch. GRAPE PLUME-MOTH. Buffalo; E. Aurora; Union Village; Batavia; Ithaca; Schenectady; Ballston; Albany; Menands; Poughkeepsie; New Windsor; Scarsdale; **SI** (NYS); **LI**: Forest Pk., *Kch* (Fbs); Mineola (NYS). End of May–Jl. Grape.

5860 **O. tenuidactylus** Fitch. Keene Val.; Wells; Geneva; Buffalo; E. Aurora; Rock City; Castile, *Brad*; Ithaca; Schenectady; Albany; Poughkeepsie. May; Jl–Aug. Blackberry.

TRICHOPTILUS Walsingham

5856 **T. lobidactylus** Fitch. E. Aurora, *Wild* (Fbs); Ithaca; Ilion; NYC; **LI**: Glendale, *Kch* (Fbs). Je; end of Jl–early Aug. Solidago.

STENOPTILIA Hübner

5949 **S. pterodactyla** L. Reported from West Farms. Veronica.

5946 **S. exclamationis** Wlsm. E. Aurora, *Wild* (Fbs); Ithaca (Fbs). Jl–Aug; Oct.

OIDAEMATOPHORUS Wallengren

(*Pterophorus* auct.)

5924 **O. cretidactylus** Fitch. E. Aurora, Gowanda, Keene (*Wild*). Late Je–Jl.

5925 **O. eupatorii** Fern. Elba, *Wild* (Fbs); Ithaca; McLean; Van Cort. Pk. Jl–early Sep. Eupatorium.

5928 **O. inquinatus** Z. E. Aurora, Buffalo (*Wild*); Ithaca. Je–Sep. Ambrosia.

5907 **O. homodactylus** Wlk. E. Aurora; Buffalo; Allegany Pk.; Ithaca. Solidago.

5908 **O. elliottii** Fern. Ithaca; McLean; Nassau(?). Je–Jl. Eupatorium.

5896 **O. stramineus** Wlsm. Ithaca, Jl–Sep. Possibly on Anaphalis.

5914 **O. lacteodactylus** Cham. Portage; Potter Swamp; Ithaca; **LI**: Lynbrook. May–Jl.

5923 **O. kellicottii** Fish. Ithaca; McLean. Je.

—— **O. balanotes** Meyr. Ithaca, Je, *Babiy* (Fbs); **LI**: Orient, May, *Lath* (Fbs).

5942 **O. monodactylus** L. Wilmington; Buffalo; E. Aurora; Ithaca; Schenectady; Albany; **LI**: Orient, *Lath* (NYS). Jl–Sep. Convolvulus and several other herbs.

ADAINA Tutt

5890 **A. montana** Wlsm. Buffalo, Jl. Solidago.

FAMILY ORNEODIDAE

ORNEODES Latreille

5954 **O. montana** Ckl. Ithaca (possibly introduced), Ap (overwintered adults). Probably on Centaurea or Knautia.

FAMILY EPIPLEMIDAE

CALLEDAPTERYX Grote

4790 **C. dryopterata** Grt. West Farms, *Angus*; **LI**: Corona. May–early Je; Aug. *Viburnum prunifolium.*

CALLIZZIA Packard

4788 **C. amorata** Pck. Keene Val.; Mt. Marcy; N. Elba; Indian Pass; Newcomb; Ithaca; Big Ind. Val.; Albany. End of Je–Jl. *Lonicera dioica.*

FAMILY LACOSOMIDAE

LACOSOMA Grote

4793 **L. chiridota** Grt. Binghamton; Poughkeepsie; Ft. Montgomery, May (Ds): Rye (Bird); **SI**; **LI**: Yaphank. Je. Oak.

CICINNUS Blanchard

4792 **C. melsheimeri** Harr. **LI:** Amagansett (Ds); Hempstead Plains; Yaphank. Je. Scrub oak.

FAMILY CITHERONIIDAE

CITHERONIA Hübner

810 **C. regalis** Fab. Brockport; Utica; Lansingburg; Albany; Oak Hill; Clermont; Poughkeepsie; New Windsor; Peekskill; Rye (Bird); S. Nyack; formerly not uncommon in Van Cort. Pk. (Wat); **SI; LI:** Mineola; Rockville Center (NYS). Je. Many shrubs and trees.

811 **C. sepulcralis** G. & R. "NY", Je. Pine.

EACLES Hübner

(*Basilona* Boisduval)

813 **E. imperialis** Dru. IMPERIAL MOTH. General from Peru southward. Je, in warmer part of State; Jl–Aug at Ithaca. Formerly abundant in Van Cort. Pk., on sassafras (Wat). Many trees, especially pine and maple.

ADELOCEPHALA Herrich-Schaeffer

803 **A. bicolor** Harr. "NY" (Grt, presumably from Buffalo). May; Jl; Aug. Locust and Kentucky coffee tree.

ANISOTA Hübner

802 **A. rubicunda** Fab. SPINY MAPLE WORM. General. One brood in the north, Je – early Aug; two broods southward, May–Je and Aug. Maple.

797 **A. stigma** Fab. Rochester, *Angle*; Buffalo (*Wild*); Karner; Lansingburg; Poughkeepsie; Rye (Bird); **SI; LI:** Brooklyn; Orient, *Lath* (NYS). May–Je. Oak.

800 **A. virginiensis** Dru. Plattsburg; Rochester, *Angle*; Buffalo; E. Aurora; Lancaster; Ithaca; Salem; Albany; Rye (Bird); **SI; LI:** Brooklyn. Je. Oak.

798 **A. senatoria** S. & A. Karner; Albany (NYS); Rye (Bird); Bronxville; **SI; LI:** Lynbrook (NYS); Centerport (NYS); Yaphank. Je. Oak, rarely on beech.

FAMILY SATURNIIDAE

HEMILEUCA Walker

784 **H. maia** Dru. CRAPE MOTH or BUCK MOTH. Karner; Albany; **LI,** general. Sep–Oct. Oak.

AUTOMERIS Hübner

779 **A. io** Fab. IO MOTH. Common and generally distributed. Wilmington; North Creek; Mayfield; Buffalo; Allegany Pk.; Castile; N. Hector; Breesport; Ithaca; McLean; Gloversville; Oneonta; Ballston and southward. Two Ithaca specimens are transitional to variety *lilith* Str. Je–Aug. General feeder.

TROPAEA Hübner

773 **T. luna** L. LUNA MOTH. Degrasse; New Russia; Hamilton; Rochester, Honeoye Falls (Angle); Buffalo; E. Aurora; Allegany Pk.; Rock City; Castile; Franklinville; Watkins; Ithaca; McLean; Trenton Falls; Gloversville; Oneonta; Schoharie; Albany; New Scotland; Saratoga Sps.; E. Chatham; New Windsor; Rye (Bird); NYC (Watson); **SI; LI:** Brooklyn. May–Je; Aug. Walnut, birch, beech, and many other trees.

T. luna form **rubromarginata** Ds. The first form to appear in the spring at Ithaca (CU), **SI**, and **LI** (Ds).

TELEA Hübner

774 **T. polyphemus** Cr. Common everywhere in the State. Je–Jl. Maple, birch, and many other trees.

CALLOSAMIA Packard

771 **C. promethea** Dru. New Russia; Red Cr.; Syracuse; Rochester, *Angle*; Buffalo; E. Aurora; Ithaca; Berkshire; Elmira; Frankfort; Hoosick Falls; Cropseyville; Albany; common southward. Je–Aug. Caterpillar preferring sassafras and spicebush, wild cherry, and tulip tree.

772 **C. angulifera** Wlk. Buffalo; Ithaca (rare); Dutchess Co; Rye (Bird); Bronx Pk. (Wat); **SI; LI:** Brooklyn. Je; Aug. Various trees, especially tulip tree.

SAMIA Hübner

766 **S. cecropia** L. General, not rare. Je. Many trees and shrubs.

PHILOSAMIA Grote

763 **P. walkeri** Fld. (*cynthia* auct. not Dru.). Fourth L., Fulton Chain, "about half a mile above lake at a clearing . . . bred two imagoes" (Wild); Rochester (Angle); Lansingburg (NYS); Livingston; NYC; **SI.** Ailanthus.

FAMILY EUPTEROTIDAE

APATELODES Packard

3726 **A. torrefacta** S. & A. Rochester, *Angle*; Kingston; Poughkeepsie; New Windsor; Rye (Bird); Greenwood L.; larvae formerly abundant on *Prunus serotina* in Van Cort. Pk. (Wat); **SI; LI:** Brooklyn; Lynbrook. Je–Jl. Many trees and shrubs.

3728 **A. angelica** Grt. Plattsburg; Ithaca; Bath; Sharon Sps.; Albany; Poughkeepsie; West Pt.; Coldenham; **LI:** Jamaica. May–Jl. Ash and lilac.

FAMILY LASIOCAMPIDAE

TOLYPE Walker

3738 **T. velleda** Stoll. New Russia, *Jones*; Newport (NYS); Spier Falls; Rochester; Lancaster; Buffalo; E. Aurora; Ithaca; Oneonta; Albany; Lagrangeville (NYS); Rye (Bird); Bronxville; **SI; LI:** Southold; Bellport; Jamaica, Yaphank (Ds); Aqueduct (Wat). Sep–Oct. Apple, poplar, and other trees.

3743 **T. laricis** Fitch. Plattsburg; Rochester; Cold Water; Buffalo; Ithaca; Albany; Rensselaer; Poughkeepsie; **LI:** Central Pk., *Kch*; Yaphank (Ds). Aug–Sep. Larch; pine (Kch).

ARTACE Walker

3737 **A. punctistriga** Wlk. **LI:** Brooklyn (Ottolengui).

MALACOSOMA Hübner

3745 **M. americana** Fab. APPLE-TREE TENT-CATERPILLAR. Common and general. Late Je–Aug. Apple, wild cherry, and other Rosaceae.

3752 **M. disstria** Hbn. FOREST TENT-CATERPILLAR. McLean (Fbs). Common throughout the State, even on the summit of Mt. Marcy. Jl, later than *americana*. Forest trees, especially maple.

I have seen var. *sylvatica* from Ithaca, Geneva, and Peru; var. *thoracicoides* from Ithaca and Peru (Fbs).

EPICNAPTERA Rambur

3754 **E. americana** Harr. AMERICAN LAPPET. Old Forge; New Russia, *Jones*; Rochester; Lancaster; Buffalo; E. Aurora; Ithaca; Oneonta; Rhinebeck; Poughkeepsie; Rye (Bird); **LI.** May–early Je; Jl–Aug. Apple, oak, maple, and other trees.

I have seen var. *ferruginea* Pck. from Ithaca and Karner (Fbs).

FAMILY THYATIRIDAE

HABROSYNE Hübner

3687 **H. scripta** Gosse. Plattsburg; Peru; Essex Co; L. Pleasant; Evans Center; Allegany Pk. (Wild); Rock City; Ithaca; Oliverea (Ds); Onteora Mt.; Schenectady; Poughkeepsie; **LI:** Brooklyn. Je; Aug. Blackberry, thimbleberry, and other Rosaceae.

3689 **H. rectangula** Ottol. **LI:** Brooklyn (type).

PSEUDOTHYATIRA Grote

3690 **P. cymatophoroides** Gn. Wilmington (larva); Adirondack Lodge; Newcomb; Plattsburg; Mt. Marcy; Fentons; Clayton; Lancaster; Otto; Allegany Pk.; Ithaca; Debruce; Sharon; Schenectady; Poughkeepsie; **SI**; **LI:** Newtown. Je–Aug. Oak and thimbleberry.

P. cymatophoroides var. **expultrix** Grt. Plattsburg; Fentons; Mt. Marcy; Adirondack Lodge; Newcomb; Clayton; Buffalo; E. Aurora (Wild); Lancaster; Allegany Pk. (Wild); Otto; Rock City; Ithaca; Sharon; Schenectady; Oliverea (Ds); Rye (Bird); **SI** (Ds); **LI.**

EUTHYATIRA Smith

3693 **E. pudens** Gn. Brockport; Lancaster; Ithaca; Dutchess Co; **LI:** Queens (Bell and Eng). May. Cornus.

FAMILY DREPANIDAE

EUDEILINEA Packard

3756 **E. herminiata** Gn. N. Elba; Fourth L., Fulton Chain; Newcomb; Batavia; Oak Orchard Swamp; Otto; Potter Swamp; Crosby; Taughannock Falls; Ithaca; McLean; Big Ind. Val.; Nassau; Albany; Rhinebeck; Ft. Montgomery (Ds); New Windsor; **SI.** May–Je; Jl–Aug. Cornus.

DREPANA Schranck

3760 **D. arcuata** Wlk. Plattsburg; Peru; Old Forge; Mt. Marcy; Lewis Co; Lancaster; E. Aurora; Castile; Ithaca; McLean; Trenton Falls; Rhinebeck; Ulster Co (Shoe); Oliverea (Ds); Poughkeepsie; West Pt. and Ft. Montgomery (Ds); Rye (Bird); NYC; **SI;** general on **LI.** May–Je; Aug. Birch and alder.

FALCARIA Haworth

3761 **F. bilineata** Pck. Plattsburg; Wilmington; Albany; **SI; LI:** Brooklyn; Queens (*Bell and Eng*). May–Je. Birch.

F. bilineata var. **levis** Hudson. Known definitely from Cranberry L., *Htly*; Plattsburg; Wilmington; Alpine; Saratoga; Ulster Co (Shoe); Westchester Co; **SI** (Ds); **LI:** Brooklyn. Aug.

ORETA Walker

3757 **O. rosea** Wlk. Peru; Fentons; Mt. Marcy; Protection (Wild); Ithaca; McLean; Big Ind. Val.; Albany; Rhinebeck; Poughkeepsie; **SI; LI:** Brooklyn. May–Sep. Viburnum.

O. rosea var. **marginata** Wlk. Ithaca; Ulster Co; NYC and vic., *Eliot*; **SI** (Ds). May–Sep.

3758 **O. irrorata** Pck. Mt. Marcy; Ithaca. Je–Aug.

FAMILY GEOMETRIDAE [65]

SUBFAMILY BREPHINAE

BREPHOS Ochsenheimer

3762 **B. infans** Mösch. Karner; Sloatsburg; Van Cort. Pk. (Wat); **SI; LI:** Wyandanch; Massapequa (Ds). A northern species that will certainly be found much more general. Mar – early Ap. White birch.

LEUCOBREPHOS Grote

3766 **L. brephoides** Wlk. St. Lawrence Co, Ap (US, NYS). Aspen.

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[65] *Phalaena* (*Geometra*) *extenaria* L., credited to NY, has never been recognized.

SUBFAMILY OENOCHROMINAE

ALSOPHILA Hübner

3767 **A. pometaria** Harr. FALL CANKER WORM. Records for the imago are: Rochester, *Angle*; E. Aurora (*Wild*); Castile; Ithaca; Mt. Vernon; **SI; LI:** Bellport. Larvae seem common anywhere in the State. A former pest in Brooklyn, it has almost disappeared since the introduction of the English sparrow about 1880 (Eng). Nov–Dec; Ap. General feeder on trees, often injurious to apple an delm.

SUBFAMILY HEMITHEINAE

RACHEOSPILA Guenée

3775 **R. rubrolinearia** Pck. Ithaca; **LI** (Hulst). May; Jl. Birch.

3773 **R. rubromarginaria** Pck. Lancaster; **LI:** Central Pk., May 17, *Kch* (Doll).

NEMORIA Hübner

(*Aplodes* Guenée)

3781 **N. bistriaria** Hbn. New Windsor; Bronx Pk.; **LI:** Yaphank (Eng). If *bifilata* Wlk. is a distinct species, the NY records should probably be credited to it. Black walnut.

3783 **N. mimosaria** Gn. Peru; Saranac L.; Cranberry L., *Htly*; Buffalo; Vandalia; Crosby; Ithaca; Danby; McLean; Big Ind. Val.; Trenton Falls; Schoharie; Albany; **SI; LI:** Brooklyn; Wyandanch, Central Pk., *Kch* (Doll); Pinelawn, Yaphank (Ds). End of May – Jl.

3784 **N. rubrifrontaria** Pck. Buffalo, May (*Wild*); West Farms; **SI; LI:** Brooklyn; Maspeth; Central Pk., *Kch*; Yaphank (Eng). May.

SYNCHLORA Guenée

3800 **S. aerata** Fab. General and common. Je–Sep. General on low plants, especially the flowers and fruits.

3801 **S. denticularia** Wlk. Bronxville. Rudbeckia.

3802 **S. rubrifrontaria** Pck. Buffalo (*Wild*).

DICHORDA Prout

(*Anaplodes*)

3810 **D. iridaria remotaria** Hulst. Saranac Inn; Ithaca; Catskills; Katonah; **SI; LI:** Brooklyn; Orient, *Lath.* Jl–Aug. Sumac (Dimmock).

CHLORISSA Stephens

(*Nemoria* Hübner)

3813 **C. pistaciaria** Gn. Ithaca; Karner; Poughkeepsie; Hastings; West Farms; **SI** (Ds); **LI:** Brooklyn; Amagansett; Yaphank. Late Je.

3815 **C. subcroceata** Wlk. Clayton; Ithaca; **SI; LI:** Brooklyn; Pinelawn; Yaphank. Late Je–Jl. Oak.

3815.1 **C. dyari** Hulst (*auranticolorata* Strk.). **LI:** Bellport, May–Je.

MESOTHEA Warren

(*Eucrostis* Hübner)

3816 **M. incertata** Wlk. Clayton; McLean; Big Ind. Val.; Karner; Albany.

CHLOROCHLAMYS Hulst

3818 **C. chloroleucaria** Gn. Peru; Newport; St. Ile; Rochester; Honeoye Falls; Buffalo; Otto; Castile; Potter Swamp; Ithaca; McLean; Catskills; Hebron; Schenectady; Albany; Rhinebeck; Katonah; West Farms; **SI** (Ds); **LI**: Brooklyn; Forest Pk., Coram, *Kch* (Fbs); Wading R. Late May–Sep. General on low plants.

SUBFAMILY STERRHINAE

(*Acidaliinae*)

EUACIDALIA Packard

(*Eois* Hübner)

3835 **E. ossularia** Hbn. Buffalo, E. Aurora, Aug (*Wild*); **LI**: Amagansett, Yaphank, Forest Pk., Jl; Central Pk., Southold, Sep (Ds); Gardiners I., Je (Ds).

SYNELYS Hulst

(*Acidalia* Treitschke not Hübner)

3857 **S. ennucleata** Gn. (*restrictaria* Wlk.). Common everywhere in the State; also the vars. *relevata* Swett and *adornata* Prout. Je–Aug. Wild cherry.

CINGLIS Guenée

(*Acidalia*)

3856 **C. quadrilineata** Pck. (*similaria* auct., in part). Peru; N. Twin Br., Mt. Marcy; Newcomb; Otto(?); McLean; Trenton Falls; **LI**: Amagansett (Eng). Je–Jl.

3856 **C. junctaria** Wlk. (*persimilis* Hulst, *similaria* auct.). E. Aurora, *Wild* (Fbs); Potter Swamp; McLean. These species have been universally confused; at least one of them occurs at Fentons, Newport, Big Ind. Val., and Liberty. Je–Jl.

3901 **C. inductata** Gn. (*Acidalia, Leptomeris*). General and common. Je–Sep.

3903 **C. australis** Hulst. **SI** (Ds); **LI**: Yaphank; Wading R., May (Ds).

3853 **C. purata** Gn. Potter Swamp; West Farms; **LI**: Wading R., Je (Ds). Je–Aug.

3876 **C. roseotincta** Hulst. **SI** (AM). A stray from the Tropics.

PTYCHOPODA Curtis

(*Eois* Hübner)

3885 **P. bonifata** *Hulst* (*ptelearia* Rly., *delicata* Hulst). Albany. A herbarium pest, apparently not established.

3888 **P. demissaria** Hbn. (*ferrugata* Pck.). Ithaca; Chappaqua; **LI**: Coram, *Kch* (Fbs); Pinelawn, Aug (Ds). Je–Aug. Var. *russata* Hulst was described from NY.

3902 **P. productata** Pck. **LI**: Yaphank (Pears).

HAEMATOPIS Hübner

3912 **H. grataria** Fab. General. Je–Sep. Chickweed, etc.

TIMANDRA Duponchel

(*Erastria* Hübner, *Calothysanis* Hübner)

3913 **T. amaturaria** Wlk. Ithaca; Albany; **SI**; **LI**: Brooklyn; Jamaica; Lynbrook; Astoria; Maspeth (Ds). Je–Aug.

PLEUROPRUCHA Möschler

(*Deptalia* Hulst)

3914 **P. insulsaria** Gn. Buffalo; Potter Swamp; Ithaca; Big Ind. Val.; Schenectady; Albany; West Farms; **SI**; general on **LI**. Jl–Oct. Celastrus, Solidago flowers.

COSYMBIA Hübner

3917 **C. myrtaria** Gn. Plattsburg; Ithaca, May, *Babiy* (Fbs); Poughkeepsie; West Farms; **LI**: Bellmore; Yaphank; Central Pk. (Kch). May–Sep. Oak.

3918 **C. lumenaria** Hbn. Fentons; Buffalo; Crosby; Ithaca; Big Ind. Val.; Karner; Albany; West Farms; **SI**: general on **LI**. May – early Aug. Sweet fern, Vaccinium, Psoralea.

SUBFAMILY LARENTIINAE

STAMNODES Guenée

3920 **S. gibbocostata** Wlk. Buffalo and E. Aurora (*Wild*); Cascade L.; Onteora Mt. Rare. Aug–Sep.

TRICHODEZIA Warren

3942 **T. albovittata** Gn. Adirondacks to Buffalo and Gardiners I. (**LI**). May–Je; Aug.

3942a **T. albovittata** var. **propriaria** Wlk. N. Twin Br., Mt. Marcy, Jl 6, 1918 (Fbs).

ACASIS Duponchel

(*Cysteopteryx* Hulst)

3950 **A. viridata** Pck. Fourth L., Fulton Chain; Big Ind. Val. Ap–Jl.

NYCTOBIA Hulst

3951 **N. limitata** Wlk. Plattsburg; E. Aurora, Lancaster (*Wild*); Ithaca; Karner; Albany; E. Jewett (Ds); Big Ind. Val.; Ramapo. Also reported from Saranac L.; W. Seneca; Buffalo; Bronx Pk. Ap–May.

3952 **N. anguilineata** Grt. Saranac L.; Karner; Big Ind. Val.; Suffern; **SI**; **LI**: Hempstead Plains. Ap–May.

CLADARA Hulst

3955 **C. atroliturata** Wlk. Plattsburg; Brockport; Ithaca; Ilion; Karner; E. Jewett (Ds); Big Ind. Val.; Rio (NYS); **LI:** Jamaica. Ap–May, female to Je.

LOBOPHORA Curtis

(*Philopsia* Hulst)

3956 **L. nivigerata** Wlk. Black Br.; Essex Co; Adirondack Lodge; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Karner; **LI.** May–Jl.

HETEROPHLEPS Herrich-Schaeffer

(*Nannia* Hulst)

3959 **H. refusata** Wlk. Black Br.; Lancaster; Potter Swamp; Ithaca (Pck); Big Ind. Val.; Little Falls. Je–Jl.

3961 **H. triguttaria** H-S. Common everywhere. Je–Aug. Maple.

DYSPTERIS Hübner

3962 **D. abortivaria** H-S. BAD-WING. Peru; New Russia; Lancaster; Gowanda and Irving (*Wild*); Ithaca; Trenton Falls; Rhinebeck; Poughkeepsie; Ft. Montgomery, Nyack (Ds); Florida; **LI:** Syosset; Wading R. (Ds); Orient, *Lath.* May–Aug. Grape.

RACHELA Hulst

3964 **R. bruceata** Hulst. BRUCE'S CANKER-WORM. Mt. Marcy; E. Aurora; Geneva; Brockport; Kendall; Niagara Falls; Buffalo; Allegany Co; Castile, *Brad*; Ithaca; Big Ind. Val.; Ballston (NYS); Andes; **SI** (Ds); **LI:** Brooklyn; Woodhaven. Oct–Nov. Apple.

TRIPHOSA Stephens

3968 **T. indubitata** Grt. (*affirmaria* Wlk. not Gn., *dubitata* auct.). Fentons; Brockport; Lancaster; Buffalo. May; Sep.

CALOCALPE Hübner

(*Hydria* Hübner)

3971 **C. undulata** L. Peru; N. Elba; Newcomb; Adirondack Lodge; Fentons; Rochester, *Angle*; Brockport; E. Aurora; Buffalo; Ithaca; McLean; Utica; Schenectady; Poughkeepsie; West Farms; **SI**; **LI:** Sands Pt. (Bs); Orient (Ds). Je–Aug. Wild cherry, social in a web.

LYGRIS Hübner

(*Eustroma*)

3977 **L. diversilineata** Hbn. General. Late Je–Sep. Grape and ampelopsis.

3977.1 **L. gracilineata** Gn. Usually confused with *L. diversilineata.* General. Available records are: Peru; Otto; Ithaca; **SI.** Jl–Aug. Ampelopsis.

3979 **L. testata** L. Essex Co; Fentons; Protection, *Dnd*; Ithaca; McLean; Gloversville (Alex); Big Ind. Val.; Sharon Sps.; Poughkeepsie. Late Aug–Sep. Birch, willow, poplar, and bean.

3978 **L. propulsata** Wlk. (*populata* auct.). Essex Co; Saranac L.; Fentons; Wells; Ithaca; Stony Clove, Greene Co.; Big Ind. Val.; Sharon Sps. Je.

3981 **L. destinata lugubrata** Mösch. Mt. Whiteface (Fbs); Mt. Marcy (Pck). Aug.

3983 **L. explanata** Wlk. Lewis Co; L. Placid; Minnewaska.

L. explanata var. **cunigerata** Wlk. Mt. Whiteface; Old Forge; L. Placid; Fentons; Ithaca; Sharon; Albany. Aug.

3985 **L.** (*Neolexia*) **xylina** Hulst. "NY" (type). Presumably from the Adirondacks.

DIACTINIA Warren

3986 **D. atrocolorata** Grt. **LI:** Brooklyn. May; Jl–Aug.

3987 **D. silaceata albolineata** Pck. Peru; Fentons; Ithaca; Onteora Mt.; Sharon. May–Je. Epilobium, Impatiens.

THERA Stephens

3989 **T. contracta** Pck. Old Forge.

DYSSTROMA Hübner

3992 **D. truncata** Hfn. The records listed here doubtless include some which belong to *citrata* (*immanata*), which has only recently been recognized in the East and can be certainly separated only by structure. Mt. Marcy; Fentons; Lancaster; Buffalo; McLean; Debruce; Big Ind. Val.; Trenton Falls; Sharon. Late Aug–Sep.

3993 **D. citrata** L. (*immanata* Haw.). Wilmington; Mt. Whiteface; also reported from Keene Val., and known from N.H. to the Pacific. Aug.

3992b **D. brunneata** Pck. Big Ind. Val., Jl. A distinct species.

3995 **D. walkerata** Pears. Catskills, Jl. Presumably a light form of *truncata*.

3998 **D. hersiliata** Gn. McLean (Fbs); Plattsburg; Essex Co; Fentons; E. Aurora (*Wild*); McLean; Big Ind. Val.; Onteora Mt.; Trenton Falls; Sharon; Schenectady; Albany. Je–Jl.

HYDRIOMENA Hübner

This genus has been revised so recently that I have been unable to verify the NY records. Only the following can be treated as certain.

4015 **H. frigidata** Wlk. "NY", May (B&McD).

4016 **H. transfigurata** Swett. McLean Bogs, May (male).

4014a **H. perfracta** Swett. Catskills, May (type).

4014 **H. pluviata** Gn. Peru; Ithaca; McLean; Catskills. Je–Jl.

4017 **H. renunciata** Wlk. Peru; E. Aurora (*Wild*); McLean (Fbs); **LI:** Central Pk., *Kch* (Fbs). Late Je–Jl. This is the American representative of *autumnalis* (*coerulata*). A member of this group occurs at Saranac Inn.

4024 **H. ruberata** Freyer. McLean (Fbs); Ithaca; Big Ind. Val. (not verified, but undoubtedly correct). May.

PERIZOMA Hübner

4094 **P. taeniata basaliata** Wlk. Mt. Marcy; Fentons; Big Ind. Val. Locally common.

XANTHORHOË Hübner

4037 **X. lacustrata** Gn. (*intermediata* Pck.). Black Br.; Peru; Lewis Co; Buffalo; Castile, Je, *Brad* (Fbs); Potter Swamp; Ithaca; McLean; Debruce; Big Ind. Val.; Sharon; Albany; Pearl R.; Bronx Pk.; NYC; **SI: LI:** Woodhaven; Orient, *Lath.* May–Aug. Impatiens.

4038 **X. designata** Hbn. Common generally. Late May; late Jl; late Aug. Herbs.

—— **X. designata** form **gynandrata** Pears. Ithaca; McLean; Catskills (types). Probably general with the type.

4039 **X. ferrugata** Cl. Adirondacks; E. Aurora; Castile, Je, *Brad* (Fbs); Rock City; **LI.** End of May – early Sep. Glecoma.

4041 **X. munitata labradorensis** Pck. N. Elba; Uphill Br., Mt. Marcy, 3000–4000 ft.

4043 **X. incursata** Hbn. L. Tear, Mt. Marcy, Jl 12–13, 1918 (Fbs).

4046 **X. montanata** D. & S. Buffalo (EPV).

4050 **X. iduata** Gn. (*fluctuata*). Mt. Marcy, Fentons (Hill); Ithaca; Catskills; Huguenot. End of Je–Sep.

4053 **X. abrasaria congregata** Wlk. Old Forge; Speculator; Mt. Marcy; Mt. Whiteface trail; Ithaca, *Wehrle.* Jl.

ORTHONAMA Hübner

(*Percnoptilota* Hulst)

4054 **O. obstipata** Fab. (*fluviata* Hbn.). Rather common all over the State. May – early Nov. Polygonum, etc.

ENTEPHRIA Hübner

4060 **E. aurata** Pck. (*caesiata* auct.). Mt. Marcy; Fentons; Big Ind. Val. Jl.

PHILEREME Hübner

4061 **P. multivagata** Hulst. Onteora Mt., *How.*

SPARGANIA Guenée

(*Coenocalpe*)

4068 **S. magnoliata** Gn. Mt. Marcy; Fentons; E. Aurora (*Wild*); Rock City; Allegany; Castile, *Brad*; Ithaca; McLean; Big. Ind. Val.; Stony Clove, Greene Co. Late May–Jl 4; Aug 23.

OPORINIA Hübner

(*Epirrita* Hübner)

4069 **O. autumnata henshawi** Swett (*dilutata* auct.). Monroe Co; Big Ind. Val. Oct. Tsuga, etc.

EUPHYIA Hübner

4072 **E. intermediata** Gn. (*lacustrata* Pck.). Peru; Mt. Marcy; Adirondack Lodge; Newcomb; Fentons; Moravia; Castile; Crosby; Geneva; Rochester; Buffalo; Ithaca; Big Ind. Val.; Schenectady; Albany; Brewsters; West Farms; **SI; LI:** Brooklyn. Je–Sep.

4075 **E. immediata** Grt. "NY". A lost species, perhaps the same as *Xanthorhoë munitata* Hbn.

4074 **E. centrostrigaria** Woll. (*latirupta* Wlk.). Mt. Marcy; Newport; N. Fair Haven; Buffalo; E. Aurora; Otto; Potter Swamp; Ithaca; Catskills; Rhinebeck; New Windsor; **SI; LI:** Yaphank. May–Aug; Oct.

4076 **E. multiferata** Wlk. Oneida; Trenton Falls; Buffalo; E. Aurora; Castile, *Brad*; Ithaca; McLean; Big Ind. Val.; Onteora Mt.; New Windsor; Brewster; **SI; LI.** Late Ap–Je.

4077 **E. luctuata** D. & S. var. **obductata** Mösch. (*lugubrata*; *transversata* of European works). Plattsburg, late May.

CAMPTOGRAMMA Stephens

4085 **C. stellata** Gn. (*sitellata*). Ithaca, Aug–Sep (CU); **LI:** Glendale, Oct 7, *Kch* (Doll).

EULYPE Hübner

(*Rheumaptera* Hübner)

4088 **E. hastata gothicata** Gn. General, including **LI:** Rockaway, Yaphank (Eng). Commonest in Adirondacks. Je–Jl; also May on **SI.** Birch, willow, and blueberry.

4092 **E. alternata** Mull. (*sociata* Borkh., *unangulata* Pck., *Epirrhoë*). Peru; Saranac Inn; Old Forge; N. Elba; Newcomb; Waddington; Vandalia; Oak Orchard Swamp; Castile, *Brad*; Potter Swamp; Ithaca; McLean; Catskills. Je–Aug.

MESOLEUCA Hübner

4086 **M. ruficilliata** Gn. Common, wherever it has been looked for, northward to Adirondack Lodge, *Bish.* Je; Aug.

EAROPHILA Gumppenberg [66]

4109 **E. vasiliata** Gn. Plattsburg; Essex Co; Fentons; Brockport; Lancaster; Ithaca; Catskills; Ilion; Schoharie; Rhinebeck; Mt. Vernon; NYC; **SI.** Ap 30 – May.

E. vasiliata var. **niveifasciata** Hulst. Ithaca, Ap 19, 1915 (Fbs).

VENUSIA Curtis

4114 **V. cambrica** Curt. Mt. Marcy; Adirondack Lodge, *Bish*; Indian Pass; Fentons; Big Ind. Val.; Stony Clove, Greene Co; Catskill; Utica. Je–Jl. Mountain ash.

4116 **V. comptaria** Wlk. (*perlineata* Pck., *salienta* Pears.). Lancaster; E. Aurora, Salamanca (*Wild*); Ithaca; Big Ind. Val.; Schoharie; Albany; Pearl R. Ap – early May.

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[66] Packard reports *Zenophleps lignicolorata* Pck. from NY, doubtless an error.

HYDRELIA Hübner

(*Euchoeca* Hübner)

4119 **H. inornata** Hulst (*exhumata* Pears.). L. Tear, Mt. Marcy; Saranac Inn; N. Elba; Indian Pass; Fourth L., Fulton Chain; Big Moose; Newcomb; Fentons; Otto; Rock City; Ithaca; McLean; Big Ind. Val.; Stony Clove, Greene Co; Onteora Mt.; Sharon; Utica; Trenton Falls; Little Falls; Schenectady; **SI,** May–Je (Ds); **LI:** Jamaica, *Kch* (Fbs); Coram (Eng). Je–Jl.

4118 **H. lucata** Gn. Lancaster; Ithaca; McLean; **SI.** May–Je.

4120 **H. albifera** Wlk. Peru; Newcomb; Buffalo; E. Aurora; Oak Orchard Swamp; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Albany; West Farms; **SI; LI:** Brooklyn. Je–Jl; Aug–Sep.

EUDULE Hübner

4122 **E. mendica** Wlk. Common everywhere, to the summit of Mt. Marcy. Je–Jl. Violet.

4123 **E. meridiana** Sloss. **SI,** Je (Ds).

TEPHROCLYSTIS Hübner [67]

(*Eupithecia* Curtis)

4144 **T. affinata** Pears. Big Ind. Val. (type).

4208 **T. albicapitata** Pck. Ithaca, Jl; Big Ind. Val. (*Pears*).

4210 **T. borealis** Hulst. Big Ind. Val. (*Pears*); Onteora Mt., *How.*

4153 **T. catskillata** Pears. Ithaca, McLean (Fbs); Big Ind. Val. (type). Je–Jl.

4168 **T. coagulata** Gn. (*fumosa* Hulst). Catskills (Pears, Tayl).

4176 **T. cretaceata** Pck. L. Tear, Mt. Marcy, Jl; summit of Mt. Marcy, Jl; Castile, Je, *Brad* (Fbs); Ithaca, Je.

4250 **T. dolorosata** Pears. Big Ind. Val. (*Pears*).

4159 **T. erpata** Pears. Big Ind. Val. (*Pears*).

4145 **T. filmata** Pears. Ithaca (CU); Big Ind. Val.; Bronx Pk., NYC; **LI.** Ap.

4141 **T. frostiata** Swett (*conformata* Pears.). New Windsor (Swett); Big Ind. Val.; Bronx Pk.; **LI:** Central Pk. and Woodhaven (Pears).

4169 **T. geminata** Pck. (*packardata* Tayl., *meritata* Pears.). Potter Swamp and Ithaca (Fbs); Big Ind. Val. (*Pears*); **LI:** Cypress Hills, Aug 28, *Kch* (Doll). Jl–Aug.

4261 **T. indistincta** Tayl. Catskills (Tayl).

4192 **T. interruptofasciata** Pck. Niagara Falls, Buffalo, E. Aurora (Wild); Ithaca (Fbs); Slaterville; Onteora Mt., *How.* Je–Oct. Juniper.

4187 **T. latipennis** Hulst. Ithaca; Big Ind. Val. Je.

4140 **T. miserulata** Grt. Ilion; Catskills; NYC; **LI.** Var. *nebulosa* Hulst is from: Big Ind. Val.; NYC; **LI:** Brooklyn (CU); Central Pk.; Bellport, Yaphank (BM). Jl.

4209 **T. mutata** Pears. Big Ind. Val. (*Pears*).

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[67] In this genus I have made few determinations; most of the records below are from specimens determined by Pearsall, Taylor, Swett, and Grossbeck (Fbs).

4156 **T. palpata** Pck. Peru (CU); Ithaca (CU); Big Ind. Val. (*Pears*). Early Je.

4265 **T. promulgata** Pears. Big Ind. Val. (*Pears*).

4228 **T. ravocostaliata** Pck. Ithaca, May 9, 1915 (Fbs).

4191 **T. youngata** Tayl. Keene Val.; Catskills.

4173 **T. strattonata** Pck. (*anticaria* auct.). McLean; Big Ind. Val., Je.

HORISME Hübner

(*Eucymatoge* Hübner)

4280 **H. intestinata** Gn. Newcomb; Fentons; New Russia; Lancaster; Blossom; Ithaca; McLean; Onteora Mt., *How*; Rhinebeck; New Windsor; West Farms; **SI; LI:** Wading R. (Ds); Orient, *Lath.* May – early Je; Aug.

SUBFAMILY GEOMETRINAE

(*Ennominae*)

ISTURGIA Hübner

(*Epelis* Hulst, *Fidonia*)

4287 **I. truncataria** Wlk. L. Tear, Mt. Marcy; E. Concord; McLean, common on the bogs; Karner. May–Jl. Bearberry.

EMATURGA Lederer

4288 **E. amitaria** Gn. (*faxonii* Minot). Black Br.; Catskills; Ft. Edward; Karner; Albany. Je. Pine(?).

EUFIDONIA Packard

4289 **E. notataria** Wlk. Black Br.; Peru; Saranac L.; Buffalo; E. Aurora; Rock City; Dayton; Vandalia; Portage; Ithaca; McLean; Gloversville (Alex); Big Ind. Val.; Onteora Mt., *How*; Trenton Falls; Bethlehem; Karner; Albany; Ramapo (Ds). May–Jl. White pine.

ORTHOFIDONIA Packard

4290 **O. exornata** Wlk. (*tinctaria* Wlk., *Cymatophora deceptata* Hulst). Saranac L.; Fourth L., Fulton Chain; Aurora Twp. (Wild); Rock City; Ithaca; McLean; Big Ind. Val.; Trenton Falls; Karner. The female form *flavivenata* Hulst occurs at E. New York, **LI.** May–Je.

BAPTA Stephens

(*Corycia, Orthofidonia*)

4292 **B. semiclarata** Wlk. N. Elba; Peru; Black Br.; Saranac Inn; Fourth L., Fulton Chain; Lewis Co; Rock City; Coy Glen and Six Mile Cr., Ithaca; McLean; Catskills; Karner. Late May–Je.

4293 **B. vestaliata** Gn. Very common everywhere. May–Jl; Aug. Apple and wild cherry.

4295 **B. glomeraria** Grt. Ithaca; McLean; Big Ind. Val.; **LI:** Coram (Eng). Ap–early May.

HELIOMATA Grote

4296 **H. infulata** Grt. **LI:** Brooklyn (Pck); Wading R. Je.

4298 **H. cycladata** Grt. Ithaca; Poughkeepsie; Bronxville; **SI; LI:** Brooklyn; Cold Sp. Harb.; Yaphank; West Hills, Wading R. (Ds); Orient, *Lath.* May–Je. Locust.

MELLILLA Grote

4300 **M. xanthometata** Wlk. (*chamaechrysaria* Grt.). Buffalo (Grt). Gleditsia.

PHYSOSTEGANIA Warren

4303 **P. pustularia** Gn. Common and general. Jl–Sep. Maple.

GUENERIA Packard

4304 **G. basiaria** Wlk. General, but somewhat local and often mistaken for one of the Deilineas. Definite records are: Peru; Vandalia; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Ft. Edward; West Farms; Hunt's Pt., *Kch* (Fbs); **SI; LI:** Woodhaven; Forest Pk. and Cold Sp., *Kch* (Fbs); Orient, *Lath.* Je–Jl.

DEILINEA Hübner

(*Cabera* Treitschke)

4307 **D. variolaria** Gn. Common and general, but easily confused. I have verified the following records: Peru; Black Br.; Mt. Marcy; Adirondack Lodge, *Bish*; Wilmington; Fentons; Rochester, *Angle*; Vandalia; Portage; Potter Swamp; Ithaca; McLean; Binghamton; Big Ind. Val.; Schoharie; Karner; Albany; **SI.** Je–Aug, stragglers to Sep. Willow.

4309 **D. erythremaria** Scop. General. With the habits of the preceding species, but not always on the same stations. Trustworthy records are: Black Br.; Peru; Wilmington; Batavia; Portage; Egleston's Glen; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Newport; Karner. End of May–early Sep. Willow.

DREPANULATRIX Gumppenberg

4325 **D. liberaria** Wlk. Fentons; Buffalo; Seneca L.; Ithaca; Binghamton; Cedar Hill; Karner; Albany; Hartsdale; Ramapo, Oct (Ds); **SI.** Var. *helena* Hulst was described from Brooklyn. Aug–Sep. Possibly Ceanothus.

PHILOBIA Duponchel

4332 **P. ulsterata** Pears. (*notata* auct.). Peru; Uphill Br. and N. Twin Br., Mt. Marcy; North Cr.; Shelving Rock, L. George; Utica; Karner; Big Ind. Val. (types); **LI.** Jl.

4331 **P. aemulataria** Wlk. (*enotata* auct.). Rock City; Potter Swamp; Ithaca; McLean; Catskills. "*P. enotata*" is reported also from: Fentons; Oneida; Buffalo; Albany; Poughkeepsie; Brewster; West Farms; **SI; LI:** Brooklyn. Late Jl–Aug. Lettuce (?).

MACARIA Curtis

(*Sciagraphia* Hulst, *Semiothisa*)

4345 **M. granitata** Gn. Forms of this species in the broad sense are general. The commonest is *dispuncta* Wlk. I have seen the typical form from Ithaca and the Catskills, and what seems to be var. *unimodaria* Morr. from Vandalia. May–Aug. Spruce(?).

4344 **M. multilineata** Pck. **LI:** Amagansett (BM).

4367 **M. ocellinata** Gn. Peru; Rochester, *Angle*; Ithaca; Rhinebeck; Florida; general south of New Windsor. Late May–early Sep. Locust.

4385 **M. continuata** Wlk. Keene, *Wild*. Celtis.

4387 **M. orillata** Wlk. **LI**(?).

4373 **M. mellistrigata** Grt. Plattsburg; Wilmington; Fentons; Waddington; Lancaster; McLean; Catskills; Karner; Albany; Poughkeepsie. Je–Aug.

4372a **M. trifasciata** Pck. Peru, Je 11, 1916 (Fbs).

4380 **M. infimata** Gn. E. Aurora, Irving (*Wild*); Ithaca; NYC; **SI**; **LI**: Brooklyn; Glendale, *Kch* (Fbs.). The type of the synonym *caesiaria* Hulst was from NY. May–early Je, Jl, Aug.

4389 **M. eremiata** Gn. Karner, May, Aug.

4336 **M. aequiferaria** Wlk. **SI.**

4338 **M. minorata** Pck. Newcomb; Ithaca; Poughkeepsie; **LI**: Forest Pk.; Brooklyn. Je–early Sep.

4341 **M. praeatomata** Haw. Ithaca, Jl 4, 1891 (CU); Karner; West Pt., Je (Ds); West Farms; **SI**, May (Ds). Jl–Aug.

4339 **M. bisignata** Wlk. Plattsburg; Peru; Keene Val.; Oneida; Lewiston; Buffalo; Lancaster; Crosby; Ithaca; Ringwood; Catskills; Albany; West Farms; **LI**: Woodhaven; Yaphank. Je–Aug. Pine, etc.

HESPERUMIA Packard

4398 **H. sulphurararia** Pck. Peru, *Mix&Everett*; Cranberry L., *Htly*; Catskills and West Pt. (Pears). Jl–Aug; late autumn.

ITAME Hübner

(*Cymatophora* Hübner, *Diastichtis* Hübner)

4430 **I. virginalis** Hulst. Peru; Wilmington; Catskills; Ithaca; Karner; Albany; **SI.** Je; Aug.

4399 **I. ribearia** Fitch. GOOSEBERRY SPAN-WORM. Peru; Ausable Forks (NYS); Fentons; Ogdensburg (NYS); Buffalo; Otto; Ithaca; McLean; Newport; Trenton Falls; Paris Hill; Schenectady; Saratoga Sps.; Salem; New Paltz. May, Jl. Currant and gooseberry, sometimes injurious.

4407 **I. brunneata** Thun. Fentons; Newcomb. Jl.

4406 **I. inceptaria** Wlk. Plattsburg; Peru; Rock City; Ithaca; **LI**: Patchogue, *Wls* (Fbs). Specimens from Big Ind. Val. are practically the same as the Mississippi Val. *I. evagaria*. End of Je–Jl.

4408 **I. subcessaria** Wlk. Sharon Sps.; Onteora Mt., *How*; also a Pearsall specimen perhaps from Big. Ind. Val. Jl.

4409 **I. coortaria enigmata** B. & McD. E. Aurora (*Wild*); Lancaster; Ithaca; DeRuyter. Je–Jl.

4411 **I. anataria** Swett. Adirondack Lodge, *Bish.*

—— **I. wauaria** L. Lancaster; **SI,** Je (Ds); **LI:** Brooklyn, E. New York (Wasmuth).

4413 **I. exauspicata** Wlk. (*bicolorata* auct.). Ithaca; McLean; Sharon; Big Ind. Val.; **LI.** Jl.

EUMACARIA Packard

4425 **E. latiferrugata** Wlk. (*pustularia* auct., *brunnearia* Pck.). Fentons; Buffalo; Karner; End of May–Je. Apple, plum, and wild cherry.

DYSMIGIA Warren

(*Sympherta* Hulst)

4453 **D. loricaria julia** Hulst. Mt. Whiteface trail; Big Ind. Val. Jl.

HOMOCHLODES Hulst

4454 **H. fritillaria** Gn. (*disconventa* Wlk.). Saranac Inn; Fentons; Adirondack Lodge; E. Aurora; Lancaster; Castile, Je, *Brad* (Fbs); Rock City; Ithaca; McLean; Liberty; Big Ind. Val.; Stony Clove, Greene Co; Oneida; Trenton Falls; Karner; Albany; Katonah; **SI.** Je–Jl.

APAECASIA Hulst

(*Lithina*)

4455 **A. detersata** Gn. Black Br.; Buffalo; Vandalia; Castile, Je, *Brad* (Fbs); McLean; Ithaca; Ft. Edward; Karner; Albany; West Farms; **SI; LI:** Yaphank, May (Ds); Merrick. Je–Jl.

4456 **A. atropunctata** Pck. (*deductaria* auct.). Ithaca, May 31, 1918; Poughkeepsie.

4457 **A. subaequaria** Wlk. (*defluata* Wlk.). Common everywhere in damp places. Je–early Aug.

4458 **A. extremaria** Wlk. **SI; LI:** Amagansett; Woodhaven. Ap–Je. A saltmarsh species.

CATOPYRRHA Hübner

4460 **C. coloraria** Fab. Ithaca; Cedar Hill; Karner; Albany; **LI:** Brooklyn and E. New York, Ap–May. The summer form *dissimilaria* Hbn. is of course general with the species; it is reported definitely from: Trenton Falls; Esopus; Karner; Albany; Pocantico Hills; Katonah (Ds); Bronxville; **LI.** Je–Jl. Clover.

CARIPETA Walker

4465 **C. divisata** Wlk. Jay; Mt. Marcy; Indian Pass; Big Moose; Fentons; Lancaster; Aurora; Ithaca; McLean; Big Ind. Val.; Schoharie; Albany. Late Je–Aug.

C. divisata var. **nigraria** Fbs. Ithaca (types).

4467 **C. angustiorata** Wlk. (*criminosa* Swett). Plattsburg; Peru; Ithaca; Poughkeepsie; **LI:** Central Pk., May 6, *Kch* (Doll); Yaphank (*Bell and Eng*). Late Jl–Aug. Pine (Kch).

4469 **C. angustiorata** var. **aretaria** Wlk. (*angustiorata* Pck., in part). Peru; Ithaca; Poughkeepsie; **LI:** Central Park (transition), *Kch.* Je–Jl, Sep.

NEPYTIA Hulst

4486 **N. canosaria** Wlk. (*semiclusaria* auct.). Keene Val.; L. Placid; E. Aurora; Otto; Ithaca; Big Ind. Val.; Catskills. A distinct species. Sep–Oct.

4488 **N. semiclusaria** Wlk. Albany, *Pears*; Cedar Hill? (Meske); **LI:** Bellmore; Delhaven; Amagansett; Yaphank. Oct.

PARAPHIA Guenée

4490 **P. unipuncta** Haw. (*subatomaria* Wood, *deplanaria* Gn., *guttata* Hulst). The numerous varieties of this species are not very sharply distinguished and I have not tried to record them separately. The species is general. Je–Jl. Birch and willow, also variously reported on oak, elm, hickory, fir, and pine.

SPODOLEPIS Hulst

4493 **S. subtriataria** Hulst (*Jubarella danbyi* Hulst). Big Ind. Val.

LYTROSIS Hulst

4496 **L. unitaria** H.-S. Rochester, *Angle*; Ithaca; Pelham Manor; L. Mahopac (Ds). May–Jl.

TORNOS Morrison

4506 **T. scolopacinarius** Gn. (*abjectarius* Hulst). **LI:** Flatbush. Aster.

CLEORA Curtis

4567 **C. sublunaria** Gn. (*atrolinearia* Hulst, *areataria* Broad.). Pelham Manor; **SI; LI:** E. New York; Woodhaven. Ap.

PSEUDOBOARMIA McDunnough

4560 **P. umbrosarium** Hbn. Mt. Marcy (Hill); Lancaster (EPV); Albany (Lint); West Farms (Pck); **SI; LI:** Yaphank; Wading R. May–Je (Ds). Confusion with *porcelaria* makes the records slightly doubtful.

PROTOBOARMIA McDunnough

4560 **P. porcelaria** Gn. (*indicataria* Wlk.). Newcomb; Orchard Pk. (*Wild*); Ithaca; Catskills; Trenton Falls; Schoharie; **SI.** Je–Aug. *Pinus virginiana* (*P. inops*).

GLENA Hulst

4602 **G. cognataria** Hbn. (*muricolor* Hulst). **LI:** Amagansett; Yaphank (Ds). End of May–Aug.

4566 **G. cribrataria** Gn. Cedar Hill. Spruce.

STENOPORPIA McDunnough

4572 **S. polygrammaria** Pck. Ithaca; Rhinebeck. The confusion of this species with *porcelaria* in Dyar's list was probably a pure accident. May–Je.

VITRINELLA McDunnough

4570 **V. pampinaria** Gn. Common throughout the State. May–Sep. A general feeder.

ANACAMPTODES McDunnough

4575 **A. vellivolata** Hulst. Portage; **LI:** Wading R. Je. Pine.

4585 **A. larvaria** Gn. Mt. Marcy; Buffalo; Ithaca; Big Ind. Val.; Albany; West Farms; **SI; LI:** West Hills (Ds). Rare, but general. May–Sep.

4574 **A. humaria** Gn. Big Moose; Karner; Poughkeepsie; Rhinebeck; NYC; **SI,** Ap–May (Ds); **LI:** Jamaica, *Kch* (Doll); Hempstead Plain. Late Je–Jl. A general feeder.

4584 **A. ephyraria** Wlk. (*takenaria* Pears.). Cranberry L., *Htly* (Fbs); Ithaca; McLean; Catskills; **SI.** Jl–Aug. Wild cherry.

MELANOLOPHIA Hulst

4599 **M. canadaria** Gn. Common everywhere. Castile, Je, *Brad* (Fbs); May–early Jl; Aug 29(1). Spruce(?).

ÆTHALOPTERA Hulst

4601 **Æ. anticaria** Wlk. (*intextata* auct.). General. Definite records are: N. Elba; Rock City; McLean; Ithaca; Big Ind. Val.; Albany; NYC; **SI; LI:** Woodhaven.; Central Pk., *Kch* (Doll). Ap–Jl.

ECTROPIS Hübner

4604 **E. crepuscularia** D. & S. Common throughout the State. I believe that our records apply rather to *bistortata* than to the true *crepuscularia* of Europe. May–Oct, mostly Jl. Poplar, alder, etc.

E. crepuscularia ab. **abraxaria** Wlk. Ithaca, Je 9.

EPIMECIS Hübner

4607 **E. hortaria** F. (*virginaria* auct., not *virginiaria* Cr.). Ithaca, probably a stray; Bronxville; **SI; LI:** Aqueduct; Forest Pk. May, Jl. Tulip tree and sassafras.

E. hortaria var. **carbonaria** Haim. **SI,** May–Aug (Ds); **LI:** Forest Pk., Jl 4, 1923 (*Kch*).

LYCIA Hübner

4608 **L. ursaria** Wlk. Plattsburg; Lancaster; Buffalo; E. Aurora; Ithaca; Albany; NYC; **LI:** Woodlawn. Ap–May. Poplar, plum, etc.

4609 **L. cognataria** Gn. (*Amphidasys*). PEPPER-AND-SALT CURRANT MOTH. Peru; Wilmington (larva); Fentons; Geneva; Rochester, *Angle*; Lancaster; E. Aurora; Buffalo; Ithaca; Binghamton (NYS); Catskills; Poughkeepsie; Albany; New Windsor; **SI; LI:** Brooklyn; Glendale, black var. *mesle*; Maspeth (Ols). May–Aug. General on trees and shrubs.

NACOPHORA Hulst

4615 **N. quernaria** S. & A. (male *phigaliaria* and *cupidaria*). Keene, E. Aurora, Allegany Pk. (*Wild*); Ithaca; Oliverea, West Pt. (Ds); **SI; LI:** Brooklyn; Forest Pk., *Kch*; Glendale (black aberration), *Kch* (Fbs); West Hills, Cold Sp. (Ds). Je (Sep). Oak.

PHIGALIA Duponchel

4620 **P. olivacearia** Morr. Ithaca; Binghamton; Albany; Bronxville; Bronx Pk., *Kch* (Doll); **SI; LI:** Brooklyn. Rarer and even earlier than the other species. End of Mar–Ap.

4622 **P. titea** Cr. HALF-WINGED GEOMETER. Peru; Rochester; Lancaster; Buffalo; Pike; Ithaca; Binghamton; Big Ind. Val.; Onteora Mt.; Albany; Rio (NYS); Ramapo (Ds); NYC; **SI; LI:** Jamaica. Sometimes very common in early spring. Ap–early May. A general feeder.

PALEACRITA Riley

4624 **P. vernata** Peck. SPRING CANKER-WORM. Old Forge; E. Aurora; Oakland; Castile; Ithaca; Cooperstown; Albany; Westchester Co; **SI; LI:** Brooklyn; Orient, *Lath.* The imago is regularly confused with that of the fall canker-worm, *pometaria,* especially in the female, and the larva is much like those of various geometers; therefore I can find only these few trustworthy records. The species is probably general but local in the State, and is often rare for several years together. Ap (rarely late fall). A general feeder.

ERANNIS Hübner

4628 **E. tiliaria** Harr. LIME-TREE WINTER MOTH. General and locally common in late fall. Oct–Nov. Linden, elm, apple, etc.

CINGILIA Walker

(*Zerene*)

4620 **C. catenaria** Dru. CHAIN-DOTTED GEOMETER. General and locally common. Adirondack records are: Fentons; Peru. Sep–Oct. A general feeder, especially on shrubs.

4631 **C. rubiferaria** Swett. Peru, Sep 15–16, 1917, *Mix&Everett* (CU).

ANAGOGA Hübner

(*Numeria*)

4641 **A. pulveraria** L. Black Br.; Mt. Marcy; Crosby; Ithaca; Debruce; Big Ind. Val.; Onteora Mt., *How*; Trenton Falls; Karner; Albany; **SI; LI:** Brooklyn; Yaphank. May–early Jl.

SICYA Guenée

4644 **S. macularia** Harr. Peru; Mt. Whiteface; Fentons; Rochester, *Angle*; Lancaster; Lewiston, N. Evans, E. Aurora, and Allegany Pk., *Wild*; Castile, *Brad*; McLean (Fbs); Ithaca; DeRuyter; Big Ind. Val.; Sharon; Albany; Poughkeepsie; Katonah; Florida. Je–Jl. Spiraea.

THERINA Hübner [68]

(*Ellopia* B. & McD.)

4653 **T. endropiaria** G. & R. Cranberry L.; Peru; Saranac L.; Rochester; Portage; Ithaca; Big Ind. Val.; West Pt., Ft. Montgomery, Nyack (Ds); **SI; LI:** Brooklyn; Bellport; Brookhaven; Yaphank. Je–Jl. Oak and chestnut.

4651 **T. pellucidaria** G. & R. **LI:** Brookhaven (Dyar); Bellport; Yaphank; Central Pk., *Doll*; Wading R., May (Ds). Yellow pine.

4652 **T. athasiaria** Wlk. Saranac L.; Buffalo; **LI:** Brookhaven; Central Pk.; Cold Sp., Je 12, *Kch* (Doll); Yaphank (Ds); Orient Pt., Aug 30, *Lath.* Ap–Je. Oak.

4654 **T. fiscellaria** Gn. Cranberry L.; Keene Val.; Cascade L.; Fentons; E. Aurora, Buffalo (*Wild*); Ithaca; McLean; Big Ind. Val.; Trenton Falls; **LI:** Yaphank. Sep–Oct. Yellow birch (Htly).

T. fiscellaria var. **turbataria** B. & McD. (*fervidaria* auct.). Buffalo; Ithaca; Trenton Falls; Cedar Hill; Albany; **SI; LI:** Amagansett, Yaphank, Sep–Oct (Ds).

4655 **T. fervidaria** Hbn. **LI:** Farmingdale, Je 16, 1918 (CU).

CAMPAEA Lamarck

(*Metrocampa* Latreille)

4659 **C. praegrandaria** Gn. General and not rare. Je–early Jl, Aug–Sep; two broods, the second dwarfed. White birch and willow.

EUGONOBAPTA Warren

4661 **E. nivosaria** Gn. General, and sometimes locally the commonest geometer. End of May–Aug.

ENNOMOS Treitschke

(*Eugonia* Hübner)

4664 **E. subsignarius** Hbn. SNOW-WHITE LINDEN MOTH. Rochester; Buffalo; Ithaca; McLean (Fbs); Seager; Big Ind. Val.; Utica; Albany; Rhinebeck; Poughkeepsie; Katonah; **SI; LI:** Pinelawn, Yaphank (Ds). Jl–Aug. Trees and shrubs. Sometimes occurs in injurious numbers.

4665 **E. magnarius** Gn. (*alniaria*). General and sometimes in injurious numbers on maple. Aug–Oct. Maple, etc.

XANTHOTYPE Warren

4666 **X. sospeta** Dru. (*crocataria* Fab.). Common and general. Recently verified records are: Adirondack Lodge, *Bish*; Peru, *Mix and Everett*; Newcomb; Ithaca; McLean. Numerous records for southern NY should be verified, as possibly belonging to *X. urticaria.*

4666.1 **X. urticaria** Sw. (*crocataria*, in part). Recently separated from the preceding species and commoner than that. Definite records are: Potter Swamp; Ithaca; McLean.

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[68] The species of this genus, except *endropiaria,* are difficult and sometimes impossible to determine, and I am not sure that all the records here given are correct.

PLAGODIS Hübner

4667 **P. serinaria** H.-S. Fourth L., Fulton Chain; Buffalo; E. Aurora (*Wild*); Rock City; Allegany Co; Ithaca; McLean; Binghamton; Catskills; Ilion; **SI; LI:** Forest Pk., *Kch* (Doll). May–early Jl.

4669 **P. keutzingaria** Pck. (*altruaria* Pears.). Plattsburg; Fourth L., Fulton Chain; Crosby; Ithaca; Albany; **LI:** Yaphank (aberrant). Also reported from Fentons, but not verified. May–Je.

4468 **P. nigrescaria** Hulst (*kuetzingi* Grt., *keutzingaria* Pck. in part). Ithaca; Onteora Mt., *How*; Poughkeepsie. May 31–Je 3.

4671 **P. purpuraria** Pears. **LI:** Merrick. (Hardly distinct from *keutzingaria*).

4673 **P. schuylkillensis** Grossb. **SI,** *Ds* (Grossb).

4674 **P. alcoolaria** Gn. Saranac L.; Cranberry L., *Htly*; Fourth L., Fulton Chain; Buffalo; E. Aurora; Portage; Ithaca; Catskills; **SI; LI:** Farmingdale; Yaphank. Late May–Jl. Chestnut.

4676 **P. phlogosaria** Gn. Fentons (Lint); Thousand Isls. (*Kch*); Rochester, *Angle*; Lancaster (EPV); Ithaca; McLean; Big Ind. Val.; Albany (Pck); Poughkeepsie; **SI; LI:** Jamaica; Richmond Hill (*Kch*). Jl–Aug.

4672 **P. emargataria** Gn. **SI; LI:** Valley Stream, May, *Kch* (Doll).

HYPERITIS Guenée

4678 **H. amicaria** H.-S. Everywhere in the State. I have not tried to record the forms, but *nyssaria* Gn. occurs at Minnewaska and Fourth L., Fulton Chain, and a dark form of *nepiasaria* Wlk. at Rock City. May–Jl. Reported on Hypericum and beech.

NEMATOCAMPA Guenée

(*Ania* Hulst not Stephens)

4680 **N. filamentaria** Gn. Northern records are: Mt. Marcy; Old Forge; Fentons. The range of the species extends southward to the Tropics. Je–Sep. A general feeder.

METARRANTHIS Warren

(*Gonodontis, Epirranthis*)

4685 **M. hypochraria** H.-S. Common and general. The normal form on the Appalachian Highlands is much paler than the type. Late May–early Jl. Apple and persimmon.

4685a **M. hypochraria** var. **lateritiaria** Gn. Trenton Falls (Wlk).

4685b **M. homuraria** Grt. Sullivan Co; **LI:** Bellport, *Nic* (Fbs). A very distinct form or species.

4686 **M. apiciaria** Pck. Karner; Albany. Je–Jl.

4687 **M. warneri** Harv. **LI:** Central Pk., Je 5, 1921, *Kch* (Doll).

4689 **M. duaria** Gn. Black Br.; Peru; Slaterville; Ithaca.

4689.1 **M. duaria** var. **hamaria** Gn. Black Br.; Newcomb; Ithaca; McLean.

4689.2 **M. duaria** var. **angularia** B. & McD. Ithaca.

All these forms or elementary species (4689, 4689.1, and 4689.2) are May–Je. Also a good many records from all over the State recorded merely as *"duaria."*

4688 **M. pilosaria** Pck. Considered a good species by B. & McD. Occurs in NY (Grossb).

4692 **M. obfirmaria** Hbn. Plattsburg; Peru; Black Br.; McLean; Catskills; Karner; Albany; **SI; LI:** Central Pk., *Kch*; Promised Land; Yaphank; Orient, *Lath.* Ap–Je. Vaccinium, Cassandra, etc.

EUCHLAENA Hübner

(*Endropia*)

4699 **E. serrata** Dru. Peru to Ithaca and Auburn, and southward to **LI:** not rare northward; uncommon on **SI** and **LI** (Ds). Je–early Aug. Maple.

4700 **E. obtusaria** Hbn. Peru; E. Aurora and Allegany Pk. (*Wild*); Ithaca; McLean; Big Ind. Val.; Albany (Pck); Katonah; **SI.** Je–Jl. Rose, etc.

4701 **E. effecta** Wlk. (*effectaria* auct.). Peru; Essex Co; Saranac L.; Fentons; Oneida; Lancaster; Allegany Pk. (*Wild*); Big Ind. Val.; Stony Clove, Greene Co; Albany. Var. *muzaria* Wlk., the southern form of this species, is credited to NY by Walker, probably from the vicinity of NYC. Jl; Sep.

4702 **E. johnsonaria** Fitch (*bilinearia* Pck.). Peru; Essex Co; Fentons; Adirondack Lodge, *Bish*; Allegany Pk. (*Wild*); Lancaster; Ithaca; Binghamton (NYS); Big Ind. Val.; Sharon; Hebron (Wls); Croton-on-Hudson (Ds); **SI; LI:** Bellport, *Nic* (Ds). Var. *minoraria* Hulst was described from NY. Je–Jl; Aug–Sep. Oak.

4704 **E. amoenaria** Gn. Binghamton; **SI; LI:** Cypress Hills, Aug 7, *Kch* (Doll); Wading R. (atypical).

4705 **E. vinulentaria** G. & R. Pearl R.; Binghamton; **LI:** Central Pk. and Coram, *Kch* (Doll); Riverhead; Yaphank. Je, Jl.

4706 **E. astylusaria** Wlk. **LI:** Yaphank. Various trees.

4707 **E. marginata** Minot. Fentons; Lancaster; Rock City; Ithaca; Schenectady; Karner; New Windsor; **LI:** Smithtown; Yaphank. May–Aug.

4710 **E. tigrinaria** Gn. (*pectinaria* auct.). Newcomb; Ithaca; Big Ind. Val.; Ramapo Mts. Jl. Oak.

SELENIA Hübner [69]

(*Eutrapela* Hübner)

4711 **S. alciphearia** Wlk. Big Ind. Val. The type form in May; var. *ornata* B. & McD. in Jl.

4712 **S. kentaria** Grt. Brockport; Buffalo; Ithaca; Big Ind. Val.; Brewsters; **LI:** Brooklyn; Queens (*Bell and Eng*). The large typical form of this generally passes as *alciphearia*; the small summer form usually called *kentaria* is *glaucata* B. & McD. May; autumn. Maple, beech, basswood, and birch.

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[69] In this genus there are two broods, the second one much dwarfed.

METANEMA Guenée

4721 **M. inatomaria** Gn. Peru; Saranac L.; Adirondack Lodge, *Bish*; Buffalo, E. Aurora (*Wild*); Newcomb; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Albany; Rhinebeck; **SI; LI:** Brooklyn. Je–Aug. Poplar(?).

4722 **M. determinata** Wlk. Peru; Essex Co; North Cr.; E. Aurora; Ithaca; Oneonta; Poughkeepsie. Late May–early Jl; late Aug.

4726 **M. quercivoraria** Gn. (*textrinaria* G. & R.). Fourth L., Fulton Chain; Buffalo; Ithaca; Overlook Mt., Catskills (G&R); **SI** (Ds); **LI:** Wading R., Yaphank, Riverhead (Ds). May–Sep, two broods. Oak, elm, and poplar.

PRIOCYCLA Guenée

4728 **P. armataria** H.-S. Mt. Marcy; Buffalo; E. Aurora; Ithaca; McLean; Big Ind. Val.; Onteora Mt., *How*; Ilion; Rhinebeck; New Windsor; Ramapo, *Fulda* (Ds); **SI; LI:** Cypress Hills, *Kch*; Orient, *Lath.* Je–Jl. Currant, birch, and maple.

4729 **P. decoloraria** Hulst (*jucundaria* Strk.). Peru; Ithaca; **SI.** Late Je–early Jl. Raspberry(?).

PERO Herrich-Schaeffer

(*Azclina* Guenée, in part)

4744 **P. honestarius** Wlk. (*ancetaria* auct.). Peru; Rochester; E. Aurora; Ithaca; common from the Mohawk Val. southward and westward. Ap–Je; Aug–Sep. Wild cherry.

4750 **P. morrisonarius** H. Edw. "Ithaca" (one old specimen at CU); Big Ind. Val. (Grossb); Pearl R. (Pears). Je–Jl.

4752 **P. marmoratus** Grossb. Rock City; Ithaca; Ilion; New Windsor (Grossb); **SI; LI:** E. New York (Ds); Orient, *Lath* (Fbs). Je–Jl.

SYSSAURA Hübner

(*Drepanodes*)

4755 **S. puber** G. & R. (*infensata* auct.). Lewis Co; Albany; Catskills; Rhinebeck; West Farms; **SI; LI:** Brooklyn; Amagansett; Yaphank; Orient, *Lath.* Je; Aug–Sep. Juniper.

APICIA Guenée

(*Caberodes* Guenée)

4758 **A. confusaria** Hbn. (*majoraria* Gn.). Common throughout the State; the dark form *metrocamparia* Gn. almost as common as the type. May, Jl–early Aug. General on low plants.

4759 **A. irraria** B. & McD. (*majoraria* auct.). Ithaca; Catskills; **SI.** Je–Aug.

TETRACIS Guenée

4762 **T. crocallata** Gn. Peru; Fentons; Rochester, *Angle;* Ithaca; McLean; Little Falls; Gloversville; Albany; Oswego; Lancaster; Buffalo and southward. Late May–Jl. Chestnut and sumac.

SABULODES Guenée

4763 **S. arcasaria** Wlk. (*sulphurata* Pck.). Poughkeepsie; Ft. Montgomery (Ds); New Windsor; West Farms; **SI; LI:** Brooklyn; Jamaica; Woodside; Woodhaven; Forest Pk., *Kch*; Wading R. (Ds). The summer form *furciferata* Pck. is reported from: Ithaca, Je 9, 1922; **LI:** Brooklyn; E. New York; Newtown. Ap–May, Je–Aug. Sumac and maple.

4769 **S. lorata** Grt. (*Tetracis*). Black Br.; Essex Co; Fentons; Castile, Je, *Brad* (Fbs); Clayton; Geneva; Rochester; Buffalo; E. Aurora; Portage; Ithaca; McLean; Big Ind. Val.; Albany; Rhinebeck; Ft. Montgomery (Ds); West Farms; **SI; LI:** Wading R., Yaphank (Ds). General and not rare. Late May–Jl; early Sep. Sweet fern (and other shrubs?).

4777 **S. transversata** Dru. General and common. Jl–Oct (two broods). Oak, maple, etc.

ABBOTTANA Hulst

4780 **A. clemataria** S. & A. General and not rare. May–Jl. A general feeder, especially on maple.

SPHACELODES Guenée

4786 **S. vulneraria** Hbn. Buffalo; Ithaca, *Benjamin*; **LI:** Brooklyn. A stray from the Tropics.

FAMILY SPHINGIDAE

HERSE Oken

662 **H. cingulata** Fab. Ithaca (a stray); Kenwood (Albany); **LI:** Brooklyn; Glendale; E. Quogue. Convolvulaceae.

PHLEGETHONTIUS Hübner

665 **P. quinquemaculata** Haw. (*celeus* Hbn.). NORTHERN TOMATO WORM. Plattsburg, Newport (NYS); Orleans, Genesee, Erie, and Chautauqua Counties, generally; Watertown; Castile; Ithaca; Cayuga and Onondaga Counties; E. Worcester; Cherry Valley; Saratoga Sps.; Watervliet; Schenectady; Coeymans; Albany; Poughkeepsie; Ulster Co, general; Woodstock and southward. Je–Jl. Solanaceae.

664 **P. sexta** Joh. (*carolina* L.). SOUTHERN TOMATO WORM or TOBACCO WORM. Ransomville (CU Econ); Clinton Corners (CU Econ); Yonkers; Rye (Bird); **SI; LI,** general (Wat). Solanaceae.

666 **P. rustica** Fab. **SI** and **LI** (Brooklyn) (strays). Bignonia, etc.

667 **P. brontes** Dru. "NY" (Westwood) (a stray).

CHLAENOGRAMMA Smith

670 **C. jasminearum** Bdv. Rye (Bird); Bronx Pk., occasional (Wat); West Farms; **SI; LI.** Ash.

DOLBA Walker

671 **D. hylaeus** Dru. Albany; Rye (Bird); New Windsor; **LI:** Brooklyn; Bellport, Jl (Nic). Ilex and papaw.

CERATOMIA Harris

674 **C. amyntor** Hbn. (*quadricornis* Harr.). FOUR-HORNED SPHINX. Peru; Rochester; Buffalo; E. Aurora; Ithaca; Oneonta; Stuyvesant Falls; Gloversville; Albany; Poughkeepsie; Rye (Bird); NYC, common (Wat); **SI; LI.** Je–Jl. Elm; white birch (Wat).

675 **C. undulosa** Wlk. (*Daremma*). Essex Co; Fentons; Rochester (Angle); Lancaster; Buffalo; Allegany Pk., abundant (Wild); Portage; Crosby; Ithaca; Onteora Mt., *How*; Oneonta; Gloversville (*Alex*); Hebron, *Wls*; Edgewood, Greene Co (Wat); Van Cort. Pk., common (Wat); **SI; LI:** Brooklyn. May–Jl; a straggler Aug 20. Ash and privet.

676 **C. catalpae** Bdv. (*Daremma*). CATALPA SPHINX. **LI:** Brooklyn, *Wasmuth*. Catalpa.

SPHINX Linnaeus

(*Hyloicus*)

693 **S. kalmiae** S. & A. L. Placid; Saranac L.; Buffalo; E. Aurora, Allegany Pk. (*Wild*); Lake Forest; Nile; Ithaca; Trenton Falls; Oneonta; Gloversville; Hebron, *Wls*; Albany; Rye; Florida; **SI; LI:** Brooklyn. Jl–Aug. Lilac, ash, and Chionanthus.

696 **S. drupiferarum** S. & A. Plattsburg; Saranac L.; Newport; Geneva; Rochester; Buffalo; Westfield (NYS); Allegany Pk. (*Wild*); Ithaca; Oneonta; Ft. Plain; Albany; Rye; Van Cort. Pk., larvae formerly common on *Prunus serotina* (Wat); **SI; LI.** May–Jl. Apple, plum, and cherry.

694 **S. gordius** Stoll. Plattsburg; Peru; Big Moose; Saranac L.; Buffalo; Lancaster; Crosby; Oneonta; Albany; Rye; Tappan (Wat); **SI; LI:** Brooklyn; Bellport (Nic); Wading R. (Ds). Je. Apple; Myrica; sweet fern and huckleberry (Eng).

695 **S. luscitiosa** Clem. Saranac L.; Ithaca; Albany; Karner; **LI:** Brooklyn. Je. Willow and poplar.

687 **S. chersis** Hbn. GREAT ASH SPHINX. Clayton; Peru; Buffalo; Otto; Ithaca; Trenton Falls; W. Winfield; Stuyvesant Falls; Oneonta; Gloversville; Hebron (Wls); Nassau; Rye; Van Cort. Pk. and Wash. Hgts., NYC, common (Wat); **SI; LI:** Cold Sp.; Brooklyn. Je–Jl. Ash and lilac.

691 **S. canadensis** Bdv. Plattsburg; Adirondacks; Buffalo. Blueberry(?).

681 **S. eremitus** Hbn. Buffalo; E. Aurora (*Wild*); Ithaca; Rogers Rock, L. George, *Jones*; Rye; **SI; LI:** Brooklyn. Mints.

ATREIDES Holland

679 **A. plebeja** Fab. Ithaca; **SI; LI:** Brooklyn. Lilac; Bignonia; passion flower; trumpet vine (Eng).

LAPARA Walker

700 **L. coniferarum** S. & A. Ulster Co (Seifert).

701 **L. bombycoides** Wlk. PINE TREE SPHINX. Plattsburg; Peru; L. Ontario shore; Ithaca; Sharon Sps.; Oneonta; Albany; **LI,** in the pine barrens (Eng). Var. *harrisii* Clem. is known from Ulster Co. and is probably the form to which many of the other records should be referred. Var. *pineum* Lint., described from Schoharie, has been taken once at Ithaca. Je–Jl. Pine.

SMERINTHUS Latreille

705 **S. jamaicensis geminatus** Say. TWIN-SPOTTED SPHINX. Plattsburg; Peru; Wilmington; Rochester (Angle); Avon; E. Aurora; Allegany Pk.; Ithaca; McLean; Gloversville; Rye; **SI; LI:** Brooklyn. Je–Aug. Willow and poplar (Eng).

The Eliot Coll. has a bred series of typical *jamaicensis,* presumably from NY stock.

706 **S. cerisyi** Kby. Plattsburg; Peru; Saranac Inn; Ithaca; Oneonta; Karner. Late May–Je. Willow.

— **S.** hybr. **interfaunus** Neum. NYC. Bred from a wild male *Paonias astylus* and a captive female *S. ocellatus* from Europe.

PAONIAS Hübner

707 **P. excaecatus** S. & A. BLIND-EYED SPHINX. Plattsburg; Peru; Newcomb; Axton; Mt. Marcy; L. Placid; Ogdensburg; Buffalo; Allegany Pk.; Union Sps. and southward. Je–Aug. Common on oak and wild cherry (*Prunus serotina*) (Wat); birch; apple.

708 **P. myops** S. & A. Peru; Fentons; Mt. Marcy; Rochester (Angle); Lewiston, common (Wat & W. P. Comstock); Buffalo; Allegany Pk. (Wild); Ithaca; Oneonta; Gloversville (*Alex*); Albany; Rye; Van Cort. Pk., formerly common (Wat); **SI; LI:** Brooklyn. Je–Jl. Wild cherry, etc.

709 **P. astylus** Dru. Poughkeepsie; Rye; **LI:** Brooklyn. Jl. Vaccinium.

CRESSONIA Grote and Robinson

710 **C. juglandis** S. & A. WALNUT SPHINX. Essex Co; Mt. Marcy; Wilmurt; Castile, Je, *Brad* (Fbs); Buffalo; E. Aurora, Allegany Pk. (Wild); Lancaster; Rock City; Ithaca; Trenton Falls; Oneonta; Rye; New Windsor; Pine I. (Ds); Van Cort. Pk. (Wat); **SI; LI:** Brooklyn; Wading R. (Ds). May 30–Jl. Walnut and hickory.

PACHYSPHINX Rothschild and Jordan

(*Marumba*)

711 **P. modesta** Harr. Plattsburg; Adirondacks; Rochester (Angle); Tonawanda; Buffalo; Lancaster; E. Aurora, Allegany Pk. (Wild); Crosby; Ithaca; Catskills (Ulster Co); Oneonta; Albany; **SI; LI:** Brooklyn. Late May – early Jl. Poplar and willow.

ERINNYIS Hübner

(*Dilophonota* Burmeister)

715 **E. ello** L. Buffalo; Catskills; Ithaca. A stray from the Tropics.

AËLLOPOS Hübner

730 **A. titan** Cr. **LI:** Rockaway (Kunze). A stray from the Tropics.

729 **A. tantalus** L. Albany (RM & WGray). A stray from the Tropics.[70]

[70] Cramer's type of *Enyo japix* was reported as from this State, almost certainly in error.

HEMARIS Dalman

735 **H. diffinis** Bdv. BUMBLE-BEE MOTH. General. May–Jl, two broods. Transitional to var. *aethra* Strk. in cooler parts of the State, and nearly typical *aethra* from Axton. Je.

733 **H. gracilis** G. & R. Trenton Falls; Karner; **SI; LI:** Smithtown. Early May–Je. Indian currant (Eng).

732 **H. thysbe** Fab. (*cimbiciformis* Steph.). Clayton; Rochester; Batavia; Buffalo; Castile, *Brad*; Ithaca; McLean; Trenton Falls; Ilion; Stuyvesant Falls; Gloversville; Hebron, *Wls*; Poughkeepsie; Crugers; Bronxville; **SI; LI:** Smithtown; Brooklyn. Var. *ruficaudis* Kby. (*uniformis* G. & R.) is reported from: Fentons; Newcomb; Buffalo; Ithaca; McLean; Trenton Falls; Utica; Schoharie; Albany; Karner; Poughkeepsie; **LI:** Sands Pt. May–Aug, two broods. Viburnum.

PHOLUS Hübner

740 **P. vitis** L. **SI; LI:** Brooklyn, bred by Tepper (Doll). Grape and ampelopsis.

741 **P. fasciatus** Sulz. **LI:** Brooklyn, *Wasmuth* (Eng). Accidental.

737 **P. satellitia pandorus** Hbn. PANDORUS SPHINX. Clayton; Newport, Cranberry Cr. (NYS); Lancaster; Buffalo; Ithaca; Mayfield (NYS); Hebron, *Wls*; Glenville (NYS); Albany and vic.; Rye; **SI; LI:** Brooklyn; Orient, *Lath* (Angle). Aug. Grape and ampelopsis.

738 **P. achemon** Dru. Lancaster; Buffalo; Ithaca; Newport; Albany (NYS); Poughkeepsie; Rye; **SI; LI:** Brooklyn; Orient, *Lath* (NYS). Je–Jl. Grape and ampelopsis.

AMPELOPHAGA Bremer and Gray

735 **A. choerilis** Cr. AZALEA SPHINX. Plattsburg; Mt. Marcy; Clayton; Lake Forest; Buffalo; Otto; Ithaca; Oneonta; Sharon; Albany; Poughkeepsie; Rye; NYC; **SI; LI:** Brooklyn; Pine Haven. Je–Jl. Azalea; Viburnum (Eng).

744 **A. myron** Cr. (*pholus* auct.). HOG CATERPILLAR OF THE VINE. Alder Co.; Port Kent; Oswego; Syracuse; Buffalo; E. Aurora; Ithaca; Ft. Plain; Knox; Patria; Athens; Rome; Crown Pt.; Stuyvesant Falls; W. Troy; and southward. Je–Aug, two broods. Grape and ampelopsis.

743 **A. versicolor** Harr. Rochester; Buffalo; Lake Forest; Ithaca; Lestershire; Kenwood, Albany; **LI:** Brooklyn. Je–Jl; Aug. Cephalanthus and Decodon (*Nesea*).

SPHECODINA Blanchard

746 **S. abbottii** Swains. ABBOT'S SPHINX. General on **LI** and northward to Hebron; Gloversville; Mt. Morris; Howe's Cave, Schoharie; Saranac L. May. Grape and ampelopsis.

DEIDAMIA Clemens

747 **D. incripta** Harr. Batavia; Ithaca; Brockport; Ft. Montgomery (Ds); Rye; **SI; LI:** Brooklyn. May. Grape; ampelopsis (Eng).

AMPHION Hübner

749 **A. nessus** Cr. Fentons; S. Bryon; Pike; Buffalo; E. Aurora (*Wild*); Ithaca; Trenton Falls; Oneonta; Ft. Edward; Albany; Cambridge; Athens; Rye; Pine I. (Ds); Bronx Pk. (Wat & W.P.Comstock); **SI; LI:** Brooklyn; Smithtown; Orient, *Lath.* Je–Jl. Ampelopsis; grape and evening primrose (Eng).

PROSERPINUS Hübner

(*Lepisesia* Grote)

753 **P. flavofasciata** Wlk. Harrisville, *Elbridge Sibley* (Quaintance). Epilobium.

XYLOPHANES Hübner

(*Theretra*)

760 **X. tersa** L. Kenwood, Albany; Rye; **SI; LI:** Brooklyn; Jamaica. Spermacoce.

CELERIO Oken

(*Deilephila* Ochsenheimer)

761 **C. gallii intermedia** Kby. Plattsburg; Essex Co; Buffalo; E. Aurora; Ithaca; Oneonta; Schenectady; Albany; Poughkeepsie; **LI:** Brooklyn. Epilobium, etc.

762 **C. lineata** Fab. WHITE-LINED SPHINX. Common southward. Definite records are; Buffalo; Ithaca; Oneonta; Stuyvesant Falls; Cedar Hill; Albany; Coeymans; Poughkeepsie; **SI; LI:** Brooklyn. A general feeder, preferring purslane and evening primrose.

FAMILY NOTODONTIDAE

MELALOPHA Hübner

(*Ichthyura*)

3589 **M. apicalis** Wlk. Peru; Albany; Rensselaer. Reported also from Plattsburg and Poughkeepsie, but the species is too near the next following for the records to be quite certain. Je–Jl (a stray in Mar). Poplar.

3592 **M. strigosa** Grt. "S.N.Y." Jl (?). Poplar.

3591 **M. inclusa** Hbn. Peru; Saranac L.; Buffalo; Ithaca; W. Coxsackie; Schoharie; Rensselaer; Putnam Co; Adams Corners; Mt. Vernon; NYC; **SI.** Ap–Je. Poplar.

3593 **M. albosigma** Fitch. Plattsburg; Peru; Essex Co; Fentons; Rochester; Batavia; Lancaster; Buffalo; Ithaca; Onteora Mt., *How*; Gloversville (*Alex*); Sharon; Albany; Poughkeepsie; **SI; LI:** Jamaica. The var. *specifica* Dyar is general with the type, and is commoner at Ithaca at least. Je–Aug. Poplar.

3594 **M. brucei** H. Edw. Plattsburg (Pck). Willow.

DATANA Walker [71]

3595 **D. ministra** Dru. YELLOW-NECKED APPLE WORM. Waddington; Massena; Potsdam; Chepachet; Medina; Chautauqua Co, scarce (Hartzell); Rock City and vic.; Bath; Windsor; Ithaca; Summitville; Sherburne; Stittville; Shushan; Albany; Clinton Corners, etc.; Rye; Middletown; Florida; Croton L.; Katonah; **SI; LI.** Je–Aug. Apparently the commonest Datana in the State. General on trees, sometimes injurious to apples in late summer.

3596 **D. angusii** G. & R. Plattsburg; Peru; Buffalo (*Wild*); Lancaster; Ithaca; Sharon; McLean; Karner; Selkirk; Poughkeepsie; Rye; Katonah; West Farms; **SI; LI:** Brooklyn. Je–Jl; stragglers in Aug. Walnut and hickory (?).

3597 **D. drexelii** H. Edw. Peru; Plattsburg; Ithaca; Rhinebeck; Poughkeepsie; **SI.** Jl. Hamamelis; huckleberry (Eng).

3598 **D. major** G. & R. Newburgh; Poughkeepsie; Ft. Montgomery (Ds); Rye; Florida; **SI; LI:** Brooklyn. Jl. Andromeda.

3599 **D. palmii** Beut. Ithaca; Ulster Co (larvae); Poughkeepsie. Jl. Will eat Vaccinium.

3600 **D. floridana** Graef. "NY" (N&D). NYC and vic. (Eliot). I am suspicious of these records. Andromeda.

3603 **D. perspicua** G. & R. Ithaca; Gloversville (*Alex*); Rhinebeck; Poughkeepsie; Newburgh; Katonah; Rye; West Farms; **SI; LI:** Brooklyn. Jl. Sumac.

3604 **D. intergerrima** G. & R. WALNUT DATANA. Plattsburg; Waddington; Rochester; Holley; Eden Center; Sinclairville; Westfield; Ithaca (larvae); Canastota; Moravia; Romulus; Windsor; Utica; Rhinebeck; Poughkeepsie; West Pt. (Ds); Rye; **SI; LI:** Brooklyn; Mineola; Wading R. Jl–Aug. Walnut, usually black walnut; hickory (Eng).

3607 **D. contracta** Wlk. Buffalo; Ithaca; Newburgh; **SI; LI:** Brooklyn. Jl–Aug. Oak; also reported from chestnut, hickory, and witch-hazel.

HYPERAESCHRA Butler

3608 **H. stragula** Grt. Plattsburg; Peru; Essex Co; Saranac Inn; Buffalo; E. Aurora; Ithaca; Catskills; Sharon; Hebron, *Wls*; Albany; Rhinebeck; Poughkeepsie; Rye; **SI; LI.** All summer, two broods (?). Poplar and willow.

3609 **H. georgica** H-S. Plattsburg; Ithaca; Poughkeepsie. May–Jl. Oak.

ODONTOSIA Hübner

3611 **O. elegans** Strk. Saranac L.; Ithaca (larva).

NOTODONTA Ochsenheimer

3613 **N. basitriens** Wlk. Peru, *Mix&Everett*; N. Elba; Keene Val.; Brockport; Buffalo; Lewiston (Wild); Onteora Mt., *How*; Ithaca; McLean; Trenton Falls; Sharon. Late May; Aug.

3614 **N. simplaria** Graef. Plattsburg; Peru, Aug 2, *Mix&Everett*.

[71] In this genus determinations based on the imago are usually a little doubtful, and therefore I have omitted records based on atypical imagoes (Fbs).

PHEOSIA Hübner

3615 **P. dimidiata** H-S. Plattsburg; Wilmington (larva); Saranac L.; Lancaster; Buffalo; Rock City; Ithaca; North Branch; Onteora Mt., *How*; Utica; Albany; Poughkeepsie; Rye; **LI:** Brooklyn. Jl–Aug. Poplar; willow (Eng).

LOPHODONTA Packard

3617 **L. ferruginea** Pck. Plattsburg; Peru; Keene Val.; Mt. Marcy; Ithaca (rare); Poughkeepsie; Catskills; Rye; **SI; LI:** Brooklyn. May; Jl–Aug. Birch.

3618 **L. angulosa** S. & A. Plattsburg; Brockport; Ithaca; Ulster Co; Dutchess Co; **SI; LI:** Yaphank. May–Aug. Oak.

NADATA Walker

3602 **N. gibbosa** S. & A. Common throughout the State. Je–Jl (stragglers to Sep). Oak.

NERICE Walker

3621 **N. bidentata** Wlk. Plattsburg; Peru; North Cr.; Geneva; Lancaster; E. Aurora; Ithaca; McLean; Trenton Falls; Sharon; Rhinebeck; Poughkeepsie; Rye; **LI:** Newtown. May–Aug. Elm.

SYMMERISTA Hübner

3622 **S. albifrons** S. & A. RED-HUMPED MAPLE WORM. Plattsburg; Peru; Lancaster; E. Aurora; Castile, Je, *Brad* (Fbs); Gowanda; Leon; Ithaca; McLean; Onteora Mt., *How*; Trenton Falls; Poughkeepsie; Rye; **SI; LI:** Brooklyn. Je–Jl. Maple, oak, and rarely, beech.

DASYLOPHIA Packard

3625 **D. anguina** S. & A. Plattsburg; Big Ind. Val.; Albany; Poughkeepsie; New Windsor; Katonah; **LI:** Brooklyn (Doll). Je–Jl. Locust and other legumes.

3626 **D. thyatiroides** Wlk. Plattsburg; Ithaca; Sharon. Reported from hickory, but probably in error.

HETEROCAMPA Doubleday

3634.1 **H. obliqua** Pck. (*trouvelotii* Pck.). L. Placid; Ithaca; Big Ind. Val.; West Farms; **LI:** Newtown. Jl. Oak.

3640 **H. umbrata** Wlk. (*pulverea* G. & R.). Ithaca; Poughkeepsie; **SI; LI:** Brooklyn. Jl–Aug. Oak.

3641 **H. manteo** Dbl. Plattsburg; Peru; Saranac L.; Castile, Je, *Brad* (Fbs); Buffalo; Ithaca; Onteora Mt., *How*; Trenton Falls; Utica; **SI;** general on **LI.** Je–Aug. Oak and other trees.

3642 **H. biundata** Wlk. Cincinnatus, *Dnd*; Ithaca; Big Ind. Val.; Trenton Falls (type); **LI:** Woodhaven. Credibly reported also from Plattsburg and Poughkeepsie. Maple and other trees.

3643 **H. guttivitta** Wlk. MAPLE PROMINENT. Plattsburg; Peru; Saranac L.; Jamestown; Buffalo; E. Aurora (*Wild*); Ithaca; McLean; Big Ind. Val.; Johnstown; Berlin; Stephentown; Ramapo Mts.; **SI; LI:** Greenport, Aug (Ds). Reported also from Poughkeepsie, where it undoubtedly occurs. Rubbed or faded specimens are quite indistinguishable from *biundata*. May–Jl, Sep. Maple and other trees, sometimes injurious.

3644 **H. bilineata** Pck. (*Seirodonta*). Plattsburg; Oswego; Buffalo (*Wild*); Lancaster; Castile; Ithaca; Rhinebeck; Poughkeepsie; Katonah; Irvington; **SI; LI:** Brooklyn. Je–Aug. Elm.

MISOGADA Walker

3645 **M. unicolor** Pck. Brockport; Buffalo; Ithaca; Catskills; Poughkeepsie; Rye; **SI; LI:** Brooklyn; Glencove; Woodhaven. Je. Sycamore.

IANASSA Walker

3649 **I. lignicolor** Walker. Plattsburg; Peru; Rochester, *Angle*; Buffalo; Aurora; Rock City (*Wild*); Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Poughkeepsie; Rye; **SI; LI:** Brooklyn. Je–Aug. Oak, beech, and birch.

SCHIZURA Doubleday

3654 **S. ipomoeae** Dbl. Plattsburg; Wilmington (larva); Saranac L.; E. Aurora; Geneva; Ithaca; Big Ind. Val.; W. Haverstraw; Poughkeepsie; Tarrytown; **SI; LI:** Woodhaven. The preceding records belong, either certainly or probably, to the typical form. Var. *telifer* Grt. is known from Poughkeepsie, Nyack (Ds), and NYC. Var. *cinereofrons* Pck. has been seen from Buffalo, Ithaca, Rhinebeck, and Bronxville. Je–Aug. Oak, maple, etc., not Ipomoea.

3655 **S. concinna** S. & A. RED-HUMPED APPLE WORM. A pest all over the State. The imago is relatively seldom seen but the larva is unmistakable. Aug. Apple and other trees.

3652 **S. semirufescens** Wlk. (*eximia* Grt.). Plattsburg; Peru; Buffalo (*Wild*); E. Aurora; Ithaca; Sharon Sps.; Poughkeepsie; **SI.** Je–early Aug. Maple, apple, and other trees.

3657 **S. unicornis** S. & A. UNICORN PROMINENT. Common throughout the State. May–Aug. Various trees.

3659 **S. apicalis** G. & R. Peru; Ithaca; Brockport; **SI:** Clove Val. Bayberry (Eng).

3656 **S. badia** Pck. Peru; Sharon; Dutchess Co; Florida; **SI; LI:** Brooklyn. Je–Aug. Viburnum.

3660 **S. leptinoides** Grt. Plattsburg; Peru; Brockport; Buffalo; E. Aurora, *Wild*, *Dnd*; Ithaca; McLean; Poughkeepsie; New Windsor; **SI; LI** (Doll). Je; Aug. Oak, etc.

HYPARPAX Hübner

3662 **H. aurora** S. & A. Plattsburg; Protection (Wild); Ithaca, Je 9, 1918; Karner; New Windsor; Rye; Bronx Pk. (Ds); **SI;** common and general on **LI.** Je. Oak.

CERURA Schrank

3666 **C. scitiscripta multiscripta** Rly. Poughkeepsie; Rye; **SI**; common and general on **LI.** Willow and poplar.

3670 **C. occidentalis** Lint. Plattsburg; Peru; Saranac Inn; Rochester; Buffalo; Ithaca; Poughkeepsie; **SI; LI:** Brooklyn; Woodhaven. May–Je; Aug. Willow.

HARPYIA Ochsenheimer

3669 **H. borealis** Bdv. Plattsburg; Fentons; Buffalo; Ithaca; Oneonta; Poughkeepsie; Rye; **SI**; common and general on **LI.** Wild cherry.

3671 **H. cinerea** Wlk. Plattsburg; Buffalo; Ithaca, Je 12, 1915; Poughkeepsie; Rye; **SI; LI:** Brooklyn. Willow and poplar.

3673 **H. scolopendrina** Bdv. **LI:** Flushing. Var. *albicoma* has been taken at Waddington.

3673a **H. modesta** Hudson. Plattsburg; Peru, Je; Ithaca, Ap (*Benjamin*); Poughkeepsie. This appears to be a distinct species. Willow and poplar.

FENTONIA Butler

3674 **F. marthesia** Cr. Plattsburg; Buffalo; Ithaca; Big Ind. Val.; Sharon; Albany; Poughkeepsie; **SI; LI.** Jl–Aug. Oak and maple.

GLUPHISIA Boisduval

3680 **G. septentrionalis** Wlk. Rochester; Buffalo (*Wild*); Ithaca; Big Ind. Val.; Sharon; Albany; **SI; LI:** Newtown. Late Mar–Ap, Je–Aug. Poplar.

3681 **G. lintneri** Grt. Plattsburg; Ithaca; Karner. Ap–May; Sep–Oct.

G. lintneri Grt. form **avimacula** Hudson. Plattsburg (type); Ithaca; Big Ind. Val.

ELLIDA Grote

3682 **E. caniplaga** Wlk. Plattsburg; Ithaca; Utica; Karner. May 30–Jl.

FAMILY LIPARIDAE

(*Lymantriidae*)

NOTOLOPHUS Germar

(*Orgyia*, in part)

3701 **N. antiqua nova** Fitch. ANTIQUE TUSSOCK-MOTH. Ogdensburg, Newport, Gouverneur (NYS); Plattsburg; Keene Val.; Wilmington (larva); Fentons; Cranberry L., *Htly*; Rochester (NYS); Holland; Ontario; Ithaca; McLean; Silver Bay; Albany; Coxsackie (NYS). Aug. A general feeder on trees and shrubs.

HEMEROCAMPA Dyar

(*Orgyia*, in part)

3705 **H. leucostigma** S. & A. WHITE-MARKED TUSSOCK-MOTH. Common throughout the State. End of Jl – early Oct. General on trees and shrubs, often injurious.

3706 **H. inornata** Beut. **LI:** Bellport, in a swamp (presumably now exterminated).

3707 **H. definita** Pck. YELLOW-HEADED TUSSOCK. Rochester (NYS); Allegany Pk. (*Wild*); Ithaca; McLean; New Windsor. The species is probably rather general, but is easily recognized only in the larva. Sep.

OLENE Hübner

(*Parorgyia*)

3709 **O. achatina** S. & A. Plattsburg; Rhinebeck; Poughkeepsie. These records probably belong to *O. basiflava.*

3710 **O. basiflava** Pck. Brockport; Rhinebeck; Poughkeepsie; **LI:** Yaphank (Doll). Late Jl – early Aug. Hickory.

3712 **O. vagans** B. & McD. Big Ind. Val. (Pears); **LI:** Yaphank (Doll). Oak.

3715 **O. atomaria** Wlk. Newburgh (Pck); Greene Co (Seifert). Aug.

O. atomaria var. **parallela** G. & R. Ithaca; Big Ind. Val. (Pears); Rhinebeck. Je–Aug.

3716 **O. cinnamomea** G. & R. Poughkeepsie. Jl–Aug.

3717a **O. interposita** Dyar. Sharon. Aug 1.

3718 **O. plagiata** Wlk. Plattsburg. Jl–Aug. Pine.

3720 **O. pini** Dyar. Albany (Dyar); Catskills (Franck). Pine.

PORTHETRIA Hübner

3722 **P. dispar** L. GYPSY MOTH. Dr. Felt states that infestation has been found at one time or another in the following localities, but that the species is now presumably exterminated: Geneva; Mt. Kisco; Garrison; a strip along the eastern border of the State from near L. George south to Dutchess Co, including the townships of Hampton, Stanford, Washington, Berlin, N. Greenbush, N. Albany, Gallatin, Austerlitz, Canaan, and Pine Plains; Moriah Twp. in Essex Co; **LI:** Prospect Pk., Brooklyn; Patchogue and vic.; Greenport. Aug.

LIPARIS Ochsenheimer

—— **L. monacha** L. BLACK ARCHES, or NUN MOTH. **LI:** Brooklyn (Franck). Apparently never established.

EUPROCTIS Hübner

3723 **E. phaeorrhoea** Don. (*chrysorrhoea* auct.). BROWN-TAIL MOTH. **LI:** Richmond Hill, Jl 15, 1910, at light (*Kch*); Hardscrabble; Orient Pt.; Fisher's I., breeding in small numbers in 1914; Shelter I. Now exterminated.

FAMILY NOCTUIDAE

SUBFAMILY HYPENINAE

HYPENA Schrank

3579 **H. humuli** Harr. HOP SNOUT-MOTH. General and common. May; Aug; Oct. A general feeder, sometimes injurious to hop.

PLATHYPENA Grote

3578 **P. scabra** Fab. GREEN CLOVER-WORM. General and common, in some seasons injurious to beans. Je–Aug; Sep–Oct; adult hibernates (Bird).

ANEPHISCHETOS Smith

3574 **A. citata** Grt. (*Bomolocha*). Ithaca. Aug–Oct.

LOMANALTES Grote

3576 **L. eductalis** Wlk. Plattsburg; Peru; Fentons; Ithaca; McLean; Schenectady; Karner; Albany; Rhinebeck; Rye. May–Je; Aug–Sep.

BOMOLOCHA Hübner

3560 **B. manalis** Wlk. Elba (*Wild*); Geneva; Potter Swamp; Ithaca; Ulster Co; Poughkeepsie; Rye; **SI; LI**: Yaphank (Eng). Je–Aug.

3561 **B. baltimoralis** Gn. Throughout the State. Ap–Aug.

3562 **B. bijugalis** Wlk. Peru; Saranac L.; Niagara Falls; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Newport; Coeymans; Poughkeepsie; **SI; LI** (Eng). Je; Aug–Sep.

3531 **B. scutellaris** Grt. Potter Swamp; Big Ind. Val.; Cedar Hill. Je–Aug.

3564 **B. abalinealis** Wlk. Peru; Saranac L.; Buffalo; E. Aurora; Ithaca; McLean; Big Ind. Val.; Newport; Oneonta; Sharon; Schenectady; Rhinebeck; Poughkeepsie; New Windsor; **SI; LI** (Eng). End of May–Aug; apparently two broods. Elm.

3566 **B. madefactalis** Gn. (*caducalis* Wlk.). Peru; E. Onondaga; Lancaster; Buffalo; Ithaca; Schenectady; Onteora Mt., *How*; Big Ind. Val.; Rye; Croton-on-Hudson (Ds); Florida; Katonah. May–Jl.

3567 **B. sordidula** Grt. Ithaca; Poughkeepsie; Rye; **SI.** Je. Alder.

3569 **B. atomaria** Sm. Peru; Potter Swamp; Ithaca. Je; Aug.

3571 **B. toreuta** Grt. Ithaca; Rye. May; Jl–Aug.

3565 **B. deceptalis** Wlk. Lancaster; E. Aurora, Niagara Falls (Wild); Castile, *Brad*; Ithaca; McLean; Trenton Falls; Big Ind. Val.; Onteora Mt., *How*; Sharon; Schoharie; Rhinebeck; Rye; Ramapo (Ds). May–Aug.

3572 **B. edictalis** Wlk. Fentons; Potter Swamp; Ithaca; Little Falls; Big Ind. Val.; Sharon; Schenectady; Albany. Jl–Aug.

SALIA Hübner

3559 **S. interpuncta** Grt. Poughkeepsie; Katonah. Jl.

DERCETIS Grote

3556 **D. vitrea** Grt. Buffalo; Ithaca; West Farms (AM). Jl.

CAPIS Grote

3555 **C. curvata** Grt. Saranac Inn; Buffalo; Castile, *Brad*; McLean; Poughkeepsie; Katonah. Jl–early Aug.

METALECTRA Hübner [72]

(*Homopyralis* Grote)

—— **M. praecisalis** Hbn. **LI:** Lynbrook, Je 16.

3478 **M. praecisalis discalis** Grt. Saranac L.; Evans Center; Lancaster; Ithaca; Catskills; Karner; Albany; Rye; **SI; LI:** Woodhaven, Je–Jl; Sep.

3479 **M. contracta** Wlk. (*tactus* Grt.). Fentons; Newcomb; Clayton; Buffalo; Otto; Ithaca; Catskills; Newport; Schenectady; Florida; Rhinebeck; Rye; NYC; **SI; LI:** Lynbrook; Great Neck; Yaphank. Late May–Aug.

MELANOMMA Grote

3474 **M. auricinctaria** Grt. Rhinebeck; **LI:** Brooklyn; Glendale. Jl. Huckleberry and Cephalanthus.

SPARGALOMA Grote

(*Hyamia* Walker)

3472 **S. sexpunctata** Grt. Plattsburg; Peru; Crosby; Ithaca; Karner; Poughkeepsie; Rye; **SI.** Je–Aug.

3473 **S. perditalis** Wlk. Buffalo; Catskills; Rhinebeck; **SI,** Ap, Jl (Ds); **LI:** Brooklyn. Cephalanthus.

PANGRAPTA Hübner

3471 **P. decoralis** Hbn. Saranac L.; Fentons; Minnewaska; Crosby; Ithaca; McLean; Karner; Albany; Rye; **SI;** general on **LI.** May–Aug.

OXYCILLA Grote

3467 **O. malaca** Grt. **SI,** Je (Ds).

PHYTOMETRA Haworth

(*Prothymia* Hübner)

3459 **P. rhodarialis** Wlk. Buffalo. Aug.

3460 **P. semipurpurea** Wlk. Rhinebeck; Katonah; Rye; Mosholu; Woodbury (CU); **SI,** Jl, *Fulda* (Ds); **LI:** Amagansett; Yaphank. Jl–Sep.

PLEONECTYPTERA Grote

3445 **P. pyralis** Hbn. Rye; **LI.** Form *geometralis* Grt. is reported by Smith from Lahaway, N. J.

3449 **P. habitalis** Wlk. "N. Y." (Sm); Ithaca (Benjamin).

MYCTEROPHORA Hulst

3441 **M. slossoniae** Hulst. Big Ind. Val. Jl. The members of this genus are generally mistaken for geometers.

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[72] Caterpillars of this genus have been reported as living in rotten wood.

PHIPROSOPUS Grote

3436 **P. callitrichoides** Grt. Rye; Fordham; **SI; LI:** common at Jamaica. May. Smilax.

RIVULA Guenée

3434 **R. propinqualis** Gn. Common and general, especially in damp places. Je–Aug. Food probably grass.

GABARA Walker

(*Eucalyptra* Morrison)

3420 **G. bipuncta** Morr. Seen from Mosholu and Katonah. Reported also from: Rye; Albany; **LI:** Coram, Jl, *Kch.*

SCOLECOCAMPA Guenée

3411 **S. liburna** Gey. Evans Center; E. Aurora; Lancaster; Ithaca; Rhinebeck; Rye; **SI; LI:** Queens; Yaphank. Jl; larva hibernates (Bird). Dead wood.

SUBFAMILY HERMINIINAE

PALTHIS Hübner

3553 **P. angulalis** Hbn. Mt. Marcy; Saranac Inn; Fentons; Geneva; Buffalo; Castile, Je, *Brad* (Fbs); E. Aurora; Rock City; Crosby; Ithaca; McLean; Big Ind. Val.; Onteora Mt., *How*; Ft. Edward; Schenectady; Albany; Rhinebeck; Rye; Ramapo (Ds); Ft. Montgomery; **SI; LI:** Yaphank. May–early Sep.

3554 **P. asopialis** Gn. Honeoye Falls; Buffalo; E. Aurora; Ithaca; Rye; Florida. End of Je–Sep. Hop (Bird).

LASCORIA Walker

(*Gaberasa* Walker)

3550 **L. ambigualis** Wlk. Saranac L.; Hastings; Yorktown; Buffalo; Vandalia; Potter Swamp; Crosby; Ithaca; McLean; Newport; Schenectady; Rhinebeck; Rye; Ramapo (Ds); **SI; LI:** Yaphank; Forest Pk., *Kch* (Fbs). May–Sep.

PHALAENOPHANA Grote [73]

(*Heterogramma*)

3546 **P. pyramusalis** Wlk. Common wherever looked for, northward to Adirondack Lodge, *Bish*, Saranac Inn, and Peru. Je–early Jl; late Aug–Sep.

BLEPTINA Guenée

3536 **B. caradrinalis** Gn. Peru; Saranac Inn; Newcomb; North Cr.; Fentons; Buffalo (Wild); Lancaster; Otto; Ithaca; McLean; New Windsor; Rye; Katonah; **SI; LI:** Wading R.; Yaphank. The black-spotted form also occurs. Jl–early Aug.

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[73] *Hypenula cacuminalis* Wlk. is labeled "West Farms" in the Angus Collection, almost certainly in error.

RENIA Guenée

3522 **R. salusalis** Wlk. **SI** (Ds); **LI** (Eng). Jl.

3524 **R. discoloralis** Gn. Fentons; Buffalo; E. Aurora; Ulster Co; Utica; Rye; **SI; LI:** Orient, May 10, *Lath.* Jl–Aug.

3532 **R. sobrialis** Wlk. Ithaca, Jl 1, 1882; Rye; **SI; LI** (Eng). Jl.

R. sobrialis var. **larvalis** Grt. E. Aurora, Gowanda, *Wild*; Lancaster (EPV); Allegany Pk. (Wild); **SI,** Jl, *Ds* (Sm). May.

3523 **R. clitosalis** Wlk. Ithaca; Utica. I am not sure that I have this species rightly determined (Fbs).

3523 **R. factiosalis** Wlk. Gowanda (*Wild*); E. Aurora; Ithaca; McLean; Karner; Schenectady; **SI; LI** (types of *tilosalis* Sm.). Jl–Sep.

3528 **R. flavipunctalis** Gey. General and rather common. Jl–Aug.

3530 **R. atrimacula** Sm. Ithaca, Aug 11.

CHYTOLITA Grote

3519 **C. morbidalis** Gn. General wherever looked for. Late May–Jl.

3519a **C. morbidalis petrealis** Grt. Peru; Black Br.; Adirondack Lodge; Saranac L.; Batavia; Castile, *Brad*; Portage; McLean; Karner; **SI; LI:** Forest Pk., *Kch* (Fbs). Je.

PHILOMETRA Grote

3516 **P. metonalis** Wlk. Common throughout the State. Jl.

3517 **P. eumelusalis** Wlk. Peru; Fentons; Buffalo; Olean; Ithaca; Schenectady; Albany. Late Je–Aug.

3518 **P. hanhami** Sm. Karner (Sm).

PHALAENOSTOLA Grote

3470 **P. larentioides** Grt. Hastings; Cedar Hill; Karner; Kinderhook, *Bish*; Poughkeepsie; West Farms; **SI; LI:** Brooklyn. Aug. A scavenger in birds' nests(?).

HORMISA Walker

3512 **H. absorptalis** Wlk. Peru; Saranac; Newcomb; Fentons; Buffalo; Otto; Olean; Ithaca; Varna; McLean; Michigan Swamp, Danby; Albany; Bethelehem; Rye; **SI.** Jl–Aug.

3513 **H. litophora** Grt. Ithaca; Little Falls; Albany; "West Farms" (Angus). Jl.

3514 **H. bivittata** Grt. Waddington; Buffalo. Jl.

3515 **H. orciferalis** Wlk. "NY" (Edw). A southern species, also known from Ct. and Mass.

ZANCLOGNATHA Lederer

3503 **Z. laevigata** Grt. Fentons; Buffalo; Otto; Allegany Pk. (*Wild*); Wells; Ithaca; McLean; Slaterville; Big Ind. Val.; Onteora Mt., *How*; Schenectady; Karner; Rye; **SI; LI** (Eng). Jl–early Aug.

Z. laevigata ab. **obsoleta** Sm. Ithaca, McLean (Fbs).

Z. laevigata ab. **reversata** Dy. Ithaca, McLean (Fbs).

Z. laevigata ab. **modestalis** Fitch. Ithaca (Fbs).

3506 **Z. pedipilalis** Gn. Peru; Saranac L.; Rock City; Potter Swamp; Ithaca; Trenton Falls; Ft. Edward; Schenectady; Newcomb; North Creek; Portageville; New Windsor; Rye; **SI.** Je–early Jl; earlier than *ochreipennis.*

3508 **Z. cruralis** Gn. Ithaca; McLean; Poughkeepsie; Fordham; **SI; LI:** Lynbrook. Late Je.

3507 **Z. protumnusalis** Wlk. Mt. Marcy; Syracuse; **SI.** Late Je; Aug–Sep.

3509 **Z. marcidilinea** Guen. Peru; Ithaca; Onteora Mt., *How*; **SI** (Ds); **LI:** Yaphank (Ds). Je–Aug.

3510 **Z. ochreipennis** Grt. Peru; Essex Co; Ithaca to **SI.** Species of this group are common all through the State, but are difficult to determine with certainty; therefore I have recorded only fairly typical specimens. Jl–Aug (stragglers in Sep).

3499 **Z. lituralis** Hbn. Peru; Saranac L.; Lancaster; E. Aurora; Gowanda; Rock City; Ithaca; McLean; Schoharie; New Windsor; **LI** (Eng). Je–early Aug.

3500 **Z. theralis** Wlk. Peru; Mt. Marcy, *Hill* Coll.; Fentons (Lint); Schoharie; **LI:** Woodhaven (Eng). Je.

3502 **Z. inconspicualis** Grt. Peru; Mt. Marcy, *Hill* (Grt); Ithaca (Fbs); McLean. Jl–Aug.

3501 **Z. minoralis** Sm. Schenectady. Aug.

PARAHYPENODES Barnes and McDunnough

—— **P. quadralis** B. & McD. Newcomb, Jl 5; McLean, Jl 30.

EPIZEUXIS Hübner

(With *Pseudaglossa* Grote)

3485 **E. americalis** Gn. General and common. Larvae in birds' nests, *Dobroscky* (Fbs). Je–Sep.

3486 **E. aemula** Hbn. General and very common. Je–Sep. Larvae in birds' nests, *Dobroscky* (Fbs).

3496 **E. lubricalis** Gey. Peru; Jay; Fentons; Mt. Marcy; Rochester (Angle); Buffalo; Otto; Allegany Pk. (*Wild*); Castile, *Brad*; Ithaca; McLean; Debruce; Schenectady; Rhinebeck; Croton-on-Hudson, Je (Ds); Crugers; Katonah; **SI; LI:** Newtown (Eng); Orient, *Lath.* Jl–Sep. Grass or dead leaves.

3494 **E. denticulalis** Harvey. Peru (CU); Ithaca; **LI:** Newtown (Eng). Jl.

3487 **E. scobialis** Grt. Ithaca; McLean; E. Aurora (*Wild*); **LI,** general (Eng). Jl–Aug.

3490 **E. rotundalis** Wlk. Buffalo; Otto; E. Aurora (Wild); Wells; Ithaca; McLean; **LI:** Orient, *Lath.* Jl–Aug.

—— **E. julia** B. & McD. (Sm. MS.). Ithaca, not rare in 1922; Onteora Mt., *How.* Jl–early Aug.

3493 **E. merricki** Sm. Otto; E. Aurora (Wild).

—— **E. diminuendis** B. & McD. Ithaca; **LI:** Coram, *Kch* (Fbs). Jl.

3491 **E. forbesi** French. Ithaca, Jl.

DYSPYRALIS Warren

3475 **D. illocata** Warr. (*humerata* Sm.). E. Aurora (Wild); Ithaca; McLean. Jl–Sep.

3477 **D. nigellus** Strk. (*Epizeuxis*). E. Aurora (Wild); Ithaca. Jl.

SUBFAMILY EREBINAE

ANOMIS Hübner

3407 **A. erosa** Hbn. Ithaca (Sep); Rye; **SI,** Oct (Ds); **LI:** Greenport. Cotton and other Malvaceae.

ALABAMA Grote

3406 **A. argillacea** Hbn. COTTON MOTH. A subtropical and Gulf-strip species, straying north in the fall to Mt. Marcy, some seasons in large numbers. Cotton; at Rye the moth has been known to puncture thin-skinned grapes (Bird).

SYLECTRA Hübner

3402 **S. ericata** Cr. NYC. A stray from the Tropics.

PLUSIODONTA Guenée

3400 **P. compressipalpis** Gn. Plattsburg; Buffalo; Castile, *Brad*; Crosby; Ithaca; Albany; Rhinebeck; Poughkeepsie; New Windsor; Rye; **SI.** Late May–early Aug. Moonseed vine.

SCOLIOPTERYX Germar

3399 **S. libatrix** L. HERALD MOTH. Peru; Keene Val.; Saranac L.; Mountain L.; Fulton Co; Clayton; Buffalo; Otto; E. Aurora; Allegany Pk.; Castile; Ithaca; McLean; Schenectady; Hebron, *Wls*; Rhinebeck; Rye; Florida; Kitchawan; **SI; LI:** Aqueduct. Late Jl–Aug; late fall. Willow.

CALPE Treitschke

3398 **C. canadensis** Beth. Plattsburg; Essex Co; Buffalo; Marilla (Wild); Ithaca; McLean; Trenton Falls; Rye; **SI; LI:** E. New York. Late Je–early Sep. Thalictrum.

THYSANIA Dalman

3392 **T. zenobia** Cr. Buffalo; Albany; NYC. Aug. A tropical wanderer.

EREBUS Latreille

3391 **E. odora** L. BLACK WITCH. New Russia (*Jones*); Buffalo; Kendall; Ithaca; Albany (NYS); **SI,** Jl and Sep (Ds); **LI:** Jamaica; Parkville. Aug. A frequent stray from the Tropics. Larva on papilionaceous trees.

ANTIBLEMMA Hübner

3361 **A. inexacta** Wlk. E. New York (Shoe). The type and var. *guttula* occurred together.

ANTICARSIA Hübner

3359 **A. gemmatilis** Hbn. VELVET BEAN CATERPILLAR. Ithaca; Rye; **SI**, Sep (Ds); **LI**: Orient Pt., *Lath*; Yaphank. Oct–Nov. A frequent stray from the South in autumn.

PANOPODA Guenée

3352 **P. rufimargo** Hbn. New Russia; Buffalo; Lancaster; E. Aurora; Castile, *Brad*; Ithaca; McLean; Rogers Rock, L. George; Albany and southward incl. **LI** and **SI**. Je–Aug. Oak. Vars. *rubricosta* Gn. and *carneicosta* Gn. from Ithaca.

PHOBERIA Hübner

3349 **P. atomaris** Hbn. Lancaster; Ithaca; Fordham; **SI**; **LI**: Brooklyn; Central Pk.; West Hills, Massapequa (Ds). Late Ap–early May. Common, but easily overlooked.

HYPOCALA Guenée

3347 **H. andremona** Cr. Brockport; Karner; Rye, Sep; **SI**, Sep (Ds); **LI** (Eng). A stray from the Tropics.

SYNEDA Guenée

3328 **S. limbolaris** Gey. Mt. Whiteface; Clayton; Evans Center; Lancaster; Gowanda; Buffalo; Portage; Ithaca; Big Ind. Val.; Poughkeepsie; Katonah; Ramapo; **SI**; **LI** (Doll). May–Jl.

3333 **S. alleni** Grt. Karner; Peru, *Mix&Everett* (Fbs). Je.

DRASTERIA Hübner

(*Syneda* auct.)

3326 **D. atlantica** B. & McD. (*graphica* auct.). Saranac L. (McKnight, probably in error for *alleni*); **SI**; **LI**: Rockaway; Babylon; Wading R.; Yaphank; Montauk Pt.; Orient, *Lath* (Fbs). Ap–May; Aug.

MELIPOTIS Hübner

3308 **M. nigrescens** G. & R. **SI**: Ft. Wadsworth, Je 5, 1924 (Ds); **LI**: Rockaway Pt., *Kch.*

3312 **M. jucunda** Hbn. **SI**, May, Jl (Ds); **LI**: Yaphank, Je (Ds).

CISSUSA Walker

[3294 *C. spadix* Cr. This species ranges northward to Mass., and therefore it undoubtedly occurs in NY. May.]

RAPHIA Hübner

3289 **R. frater** Grt. Plattsburg; Peru; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt.; New Windsor; Rye; **SI: LI:** Flatbush; Newtown; Woodhaven. Ap–Jl. Poplar.

3288 **R. abrupta** Grt. Buffalo. End of Ap–Je.

SUBFAMILY PLUSIINAE

ABROSTOLA Ochsenheimer

3287 **A. urentis** Gn. Plattsburg; Peru; Saranac L.; Spier Falls; Rochester (Angle); Lancaster; Buffalo; Ithaca; McLean; Trenton Falls; Schenectady; Albany; **LI** (Doll). May; Jl–early Sep.

3286 **A. ovalis** Gn. Kenwood; Albany. Aug.

3285 **A. formosa** Grt. Fentons; Ithaca; Albany; Bear Mt., *Erb* (Eng); **LI:** Brooklyn. Je–Jl. Vaccinium.

PALEOPLUSIA Hampson

3284 **P. venusta** Wlk. Plattsburg; Peru; Saranac L.; Waddington. Aug.

PSEUDEVA Hampson

(*Panchrysia*)

3281 **P. purpurigera** Wlk. Keene Val.; Saranac Inn; Lancaster; Ithaca. Late Je–Jl. Thalictrum.

EOSPHOROPTERYX Dyar

3280 **E. thyatyroides** Gn. Fentons; New Russia (*Jones*); Buffalo; Lancaster; Ithaca; Albany; Rye; **SI.** Je–Sep.

PLUSIA Hübner

3276 **P. aerea** Hbn. Plattsburg; Keene Val.; Batavia; Buffalo; E. Aurora; Castile; Potter Swamp; Ithaca; Trenton Falls; Schoharie; Schenectady; Rye; Pine I. (Ds); **SI; LI:** Brooklyn; Orient, *Lath.* End of Je–Sep (one straggler in Oct).

3275 **P. aeroides** Grt. Plattsburg; Keene Val.; Wilmington; Mt. Marcy; Fentons; Waddington; Lancaster; E. Aurora (*Wild*); Ithaca; McLean; Moravia; Little Falls; Stony Clove, Greene Co; Schoharie; Rhinebeck. Jl–Aug. Spiraea.

3277 **P. balluca** Gey. General, not very common. Jl–Aug. Hop.

AUTOGRAPHA Hübner

3265 **A. mappa** G. & R. Plattsburg; Mt. Marcy; Fentons.

3264 **A. bimaculata** Steph. Keene Val.; Franklin Co; Fentons; Rhinebeck; **LI:** Jamaica. Aug.

3259 **A. biloba** Steph. Buffalo; E. Aurora (*Wild*); Ithaca, Aug 28 and Oct 28; Rye, Nov 5; **SI; LI:** Brooklyn; Jamaica; Wading R. A widespread southern species, straying northward. On various herbs; a greenhouse pest on LI.

3248 **A. verruca** Fab. **SI; LI:** Woodhaven; Flatbush.

3260 **A. oo** Cr. (*rogationis* Gn.). Ithaca; W. Troy, a conservatory pest. Aug–Oct. Cabbage.

3261 **A. precationis** Gn. Common everywhere. Je–Nov, three broods. Hollyhock and other herbaceous plants.

3266 **A. gamma pseudogamma** Grt. Syracuse, Jl.

3241 **A. ni** Hbn. **LI:** Brooklyn (Ottol). Jl. A stray from the Tropics.

3249 **A. brassicae** Rly. CABBAGE LOOPER. Rochester; Elba, somewhat injurious (Cy); Buffalo; E. Aurora; Ithaca; Albany; and general southward. Jl–Nov. Cabbage and other herbs.

3254 **A. oxygramma** Gey. Ithaca, Oct; **LI:** Brooklyn, bred from Solidago by Wright (Eng).

3237 **A. alias** Ottol. Keene Val.; Lewis Co; New Russia (*Jones*); Onteora Mt., *How*. The *u-aureum* records from Mt. Marcy and Keene Val. are also likely to belong here. Aug.

3239 **A. octoscripta** Grt. Mt. Marcy; Buffalo (*Wild*); Ithaca; **LI:** Glencove, *Tepper*. Sep.

3244 **A. altera** Ottol. Adirondacks (Ottol).

3236 **A. rectangula** Kby. Fentons; New Russia (*Jones*); Waddington; E. Aurora (*Wild*); Cascade L.; Ithaca; Trenton Falls; Albany; Poughkeepsie; **LI:** Central Pk., Je (Ds). Jl–Aug.

3234 **A. selecta** Wlk. Adirondacks, Aug (Ds).

3233 **A. epigaea** Grt. Franklin Co; Fentons.

3274 **A. ampla** Wlk. Plattsburg; Mt. Marcy; Fentons; E. Aurora (Wild); Ithaca; McLean; Schenectady. Jl.

3251 **A. basigera** Wlk. Rochester (Angle); Buffalo, Oct (*Wild*); Rye; **SI.** Aug–Sep.

3230 **A. falcigera** Kby. CELERY LOOPER. The type and the brown form *simplex* Gn. are common everywhere. May–Nov. General on herbaceous plants.

3257 **A. contexta** Grt. Plattsburg; Peru; Adirondacks; Lancaster; Ithaca; Oneonta; Hebron (Wls); Albany; Rye; **SI; LI:** Maspeth, *Schott* (Eng). Je, Aug–Sep 1. Grasses.

3255 **A. festucae putnami** Grt. Plattsburg; Peru; Newcomb; Fentons; E. Aurora (Wild); Cincinnatus (Dnd); Ithaca; Liberty; Stony Clove, Greene Co; Albany. Je–Aug. Larva on grasses and other monocotyledons.

SUBFAMILY **PANTHEINAE**

CHARADRA Walker

3215 **C. deridens** Gn. Fentons; Lake Forest; Evans Center; Lancaster; E. Aurora; Ithaca; Debruce; Big Ind. Val.; Sharon; Schenectady. **LI:** Forest Pk., *Kch*. May–Aug. Oak, birch, and elm.

COLOCASIA Ochsenheimer

(*Demas* Stephens)

3206 **C. propinquilinea** Grt. Ithaca; Oneonta; Albany; Oliverea (Ds). Je–Jl. Walnut, maple, oak, and beech.

3205 **C. flavicornis** Sm. Saranac L.; Buffalo; Ilion; Albany; New Windsor. May.

C. flavicornis var. **infanta** Sm. Ilion; Ithaca, *Eyer*, transitional.

PANTHEA Hübner

3211 **P. furcilla** Pck. Plattsburg; Peru; Franklin Co; New Russia (*Jones*); Buffalo; E. Aurora (Wild); Ithaca; Rogers Rock, L. George (*Jones*); Lestershire; Ulster Co; Sharon Sps.; Schoharie; Albany; Bethlehem; Poughkeepsie; **LI** (Doll). A northern species generally. Ap–Je; late Jl–Aug. Pine and larch.

3207 **P. acronyctoides** Wlk. Plattsburg, *Hudson*; Ithaca; Oneonta; Saratoga; Mt. Kisco, *Hill*. Je–Jl.

SUBFAMILY CATOCALINAE

ZALE Hübner

(*Phaeocyma, Homoptera* Boisduval)

3175 **Z. lunata** Dru. Saranac L.; Buffalo; Lancaster; E. Aurora; Oneonta; Schenectady; Karner; Rhinebeck; Rye; **SI; LI:** Orient, *Lath.* Apparently rare northward. Jl–Nov, mostly Sep. Willow, alder, etc.

3176 **Z. unilineata** Grt. Saranac L.; E. Aurora (*Wild*); Ithaca; Karner; Albany; Crugers; **SI; LI:** Wyandanch (Ds). Late May–Je.

3180 **Z. aeruginosa** Gn. Fentons; Rock City; Schenectady; Karner; **SI,** May (Ds). **LI:** Yaphank.

3181 **Z. undularis** Dru. General and not rare. Var. *umbripennis* Grt. occurs at: Ithaca, *Babiy*; Rye; Fordham; Bronxville; **SI; LI:** Newtown; Yaphank. May–Aug.

3182 **Z. coracias** Gn. Rye; **LI:** E. New York (Barnes Coll.). Oak(?).

3184 **Z. minerea** Gn. Plattsburg; Clayton; Buffalo; Rock City; Ithaca; Big Ind. Val.; Ilion; Sharon; Karner; New Windsor; **LI:** Yaphank. Late Ap–Je ("Sep"? error for *lunata*).

3185 **Z. lunifera** Hbn. Franklin Co; Oneonta; Rye; **SI,** Oct (Ds); **LI:** Parkville; Newtown; Lynbrook. Pine.

3188 **Z. duplicata** Beth. Peru; Lake Forest; Hudson; **LI:** Merrick. Je.

3189 **Z. helata** Sm. Peru; Ithaca; Jamestown; Karner; Ft. Montgomery (Ds); **LI:** Brooklyn. May–Je.

3192 **Z. obliqua** Gn. Ithaca; Shelving Rock; Karner; **SI; LI.** Late Ap–Je; Aug. Pine(?).

Z. obliqua var. **metata** Sm. Karner. May; Aug.

Z. obliqua var. **curema** Sm. Karner (Sm). May.

3197 **Z. cingulifera** Wlk. Saranac L.; White L.; Brockport; Ithaca; Karner; New Windsor; Rye; **LI:** Brooklyn. Late Ap–May; Jl. Larva perhaps on Calycanthus (*calycanthata* S. & A., not auct.).

3199 **Z. horrida** Hbn. Fentons; Clayton; Lake Forest; Lancaster; Castile, *Brad*; Ithaca; McLean; Potter Swamp; Karner; Rhinebeck; Rye; Nyack (Ds); **SI; LI,** generally. May–Aug.

ARGYROSTROTIS Hübner

(*Poaphila* Guenée, *Agnomonia* Hübner)

3163 **A. quadrifilaris** Hbn. Fentons; Karner; **SI; LI:** Yaphank. May–Je. Larva reported from cotton.

3164 **A. anilis** Dru. Ithaca; Rogers Rock (Jones); Albany; Bethlehem; **SI; LI:** Amagansett; Orient, *Lath.* Jl–Aug.

CELIPTERA Guenée

3153 **C. frustulum** Gn. Dutchess Co; Rye; Van Cort. Pk. (Ds); Bronxville; **SI; LI:** Brooklyn. May–Je; Aug.

DORYODES Guenée

3151 **D. bistriaris** Gey. Ithaca; Rye; **SI,** on salt meadow (Ds); **LI:** Rockaway Beach; Aqueduct; Glen Cove. Je–Aug.

REMIGIA Guenée

3142 **R. latipes** Gn. (*repanda* auct.). Ithaca; Big Ind. Val.; Rye; **SI.** Most probably transient from the South; taken in NY in Sep–Oct.

3138 **R. marcida** Gn. **SI,** Aug (Ds); **LI:** Forest Pk. (Eng). A good species.

3139 **R. hexastylus** Harv. (*texana* Morr.). Ithaca; **SI,** Oct, *Ds* (Grt); **LI:** Forest Pk.; Brooklyn.

CAENURGIA Walker

(*Drasteria* auct.)

3131 **C. convalescens** Gn. "N.Y."

3135 **C. erechtea** Cr. CLOVER LOOPER. Very common everywhere. Ap–Je; Aug–Sep. Clover and other herbs.

3136 **C. crassiuscula** Haw. Very common all over the State. Ap–Je; late Jl–Sep. First brood dwarfed. Grass and other herbs.

EUCLIDIA Ochsenheimer

3130 **E. cuspidea** Hbn. Plattsburg; Black Br.; Saranac L.; Rochester (Angle); Buffalo; Portage; Ithaca; Liberty; Onteora Mt., *How*; Gloversville; Schenectady; Albany; Rhinebeck; Poughkeepsie; Katonah; Cornwall; Rye; Ramapo and Nyack (Ds); **SI; LI:** Brooklyn. May–Aug. Clover.

PARALLELIA Hübner

3127 **P. bistriaris** Hbn. Common and general, although the only **LI** record I happen to have is Brooklyn. Late May–Aug. Maple.

ALLOTRIA Hübner

3123 **A. elonympha** Hbn. Buffalo; Catskills (Ulster Co), *Nic* (Shoe Coll.); Millbrook; Katonah; **SI; LI:** Merrick. Two broods, early spring and Jl–Aug. Reported from Glycine and from hickory.

EUPARTHENOS Grote

3122 **E. nubilis** Hbn. Rather common all over the State. Two broods, May and Aug. Robinia.

CATOCALA Schrand [74]

3023 **C. epione** Dru. Evans Center; Buffalo; Ithaca; Albany; Poughkeepsie; Millbrook; Crugers; Rye; West Farms; **SI; LI:** Greenport (Eng). Jl–Aug. Hickory; reported also from oak.

3044 **C. lachrymosa** Gn. Buffalo, *EPV*; Newburgh, *Morton*. Jl. Walnut or possibly oak.

3043 **C. viduata** Gn. "NY" (Lint). Walnut and pecan.

3042 **C. vidua** S. & A. Rochester; Ithaca; Sidney; Millbrook; New Windsor; Rye; Rockland L., Oct (Ds); Pearl R. (Wat); Central Pk. in NYC; **SI; LI:** Brooklyn; Amagansett; Yaphank. Aug–Sep. Walnut, hickory, pecan, and possibly oak.

3040 **C. dejecta** Strk. Bangall; Rye; **LI:** Brooklyn. Aug.

3039 **C. retecta** Grt. Saranac L.; Rochester; Buffalo; E. Aurora; Ithaca; Sharon; Albany; Bethlehem; Rhinebeck; Millbrook; Rye; West Farms; **SI; LI:** Brooklyn. Late Aug–Sep. Hickory.

3033 **C. flebilis** Grt. Hastings Center; Albany; Millbrook; Rye; West Farms; **LI:** Brooklyn; Yaphank. Hickory.

3031 **C. robinsonii** Grt. Buffalo; Ithaca; Kenwood, Albany; Millbrook; New Windsor; Rye; West Farms; Bronx Pk., formerly not uncommon (Wat); **SI; LI:** Newtown. Sep. Hickory.

3035 **C. obscura** Strk. Pulaski; Rochester (Angle); Buffalo; Binghamton; Millbrook; West Farms; **SI,** Jl–Aug. Hickory.

3036 **C. residua** Grt. Lancaster; Buffalo; Ithaca; Sharon; Akhurst; Schenectady; Rye; West Farms (type); **SI; LI:** Brooklyn. Aug–Sep.

3041 **C. insolabilis** Gn. Buffalo; Rye; West Farms; **LI:** Brooklyn. Jl. Hickory.

3034 **C. angusi** Grt. West Farms (types of species and of var. *lucetta* H. Edw.). Hickory.

3032 **C. judith** Strk. Millbrook; West Farms; **SI; LI:** Maspeth, *Olsen* (Ds). Late Jl. Hickory.

3095 **C. andromedae** Gn. (*Hypogramma*; *C. tristis* Edw.). Millbrook; West Pt., *Robn* (Ds); **SI; LI:** Amagansett; Yaphank. Jl–Aug. Originally published as feeding on Andromeda.

3053 **C. relicta** Wlk. The typical (dark) form is known from: Fentons; Rochester; Batavia; Buffalo; E. Aurora; Oneonta; S. Gilboa (NYS); Sharon Sps.; Schenectady; Albany; Karner; Millbrook; NYC; **SI; LI:** Brooklyn. Var. *clara* Beut. (*relicta* auct.) is from: N. Elba; Karner; Rhinebeck; West Farms; Battery Pk., NYC (Wat); **LI:** Floral Pk. Var. *phrynia* H. Edw. occurs at: Clayton; Karner; Ithaca. Aug. Poplar (will feed on willow). This and the next eight species all feed on willow or poplar.

3081 **C. cara** Gn. General from the Adirondacks to Buffalo and Yaphank. Late Aug–Sep. Willow.

3083 **C. amatrix** Hbn. Adirondacks; Rochester (Angle); Buffalo; Ithaca; Schenectady; Albany; Pittstown; Millbrook; Rye; Bronxville; **SI; LI:** Brooklyn; Maspeth (Olsen). Sep. Willow and poplar. Var. *nurus* Wlk. is from: Rochester; Elmira; Cedar Hill; **SI.**

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[74] The first thirteen species here listed in this genus belong to a group all of whose members seem to feed on hickory, or more rarely on walnut. The following species belong to a group limited to willow and poplar: *relicta, cara, amatrix, marmorata, concumbens, unijuga, meskei, briseis, parta.*

3054 **C. marmorata** Edw. Millbrook; West Farms; **LI**: Brooklyn, *Schott* (Ds).

3082 **C. concumbens** Wlk. Plattsburg to Buffalo and **SI**, rare on **LI**. Sep. Willow and poplar.

3068 **C. unijuga** Wlk. General, including **LI**. Aug–Sep. Poplar and willow.

3067 **C. meskei** Grt. Schenectady; Albany.

3065 **C. briseis** Edw. Plattsburg; Fentons; Clayton; Buffalo; E. Aurora; Evans Center; Castile, *Brad*; Ithaca (including var. *albida* Beut. in Benjamin Coll.); Catskills; Oneonta; Sharon; Saratoga; Schenectady; Millbrook; **SI**; **LI**: Glendale; Yaphank. Jl–Aug.

3055 **C. parta** Gn. Throughout the State, common on **LI**. Aug–Sep. Willow and poplar.

3097 **C. coccinata** Grt. Fentons; Buffalo; Albany; Millbrook; Poughkeepsie; **LI**: Woodside, *Metzger* (Eng). Scrub oak (*Quercus nana*).

3096 **C. herodias** Strk. **LI**: Wading R. (*Eng*). Scrub oak.

3103 **C. ultronia** Hbn. General. Late Jl–Aug. Wild cherry and plum; reported also from Cornus and oak.

3051 **C. ilia** Cr. General. The varieties have not been separately recorded, but seem to be generally distributed with the type. Jl–Oct, mostly Aug. Oak.

3020 **C. innubens** Gn. Ithaca; Albany; Tarrytown; Bronx Pk. (Joutel); **LI**: Woodhaven, *Erb* (Eng). Gleditschia; (reported also from walnut).

3046 **C. nebulosa** Edw. Buffalo; Bronx Pk. (Joutel); **LI**: Brooklyn.

3021 **C. piatrix** Grt. Saranac L.; Buffalo; Ithaca; Schenectady; Bethlehem; Rhinebeck; Millbrook; Poughkeepsie; New Windsor; Rye; Bronx Pk. (Joutel); common on **LI**. Aug–Sep. Walnut, hickory, and persimmon.

3048 **C. neogama** S. & A. Fentons; Rochester, common (Angle); Buffalo; Oneonta; Schenectady; Millbrook; Rye; **SI**; **LI**: Brooklyn. Walnut.

3047 **C. subnata** Grt. Clayton; Ithaca; Sharon; Bronxville (Ds); Bronx Pk. (Joutel); **LI**: Newtown; Montauk (Eng). Aug–early Oct. Walnut.

3052 **C. cerogama** Guen. Clayton; Fentons; Plattsburg; Sharon; Buffalo; E. Aurora; Ithaca; Trenton Falls; Millbrook; Rye; **SI**; **LI**, generally. Aug. Linden.

3045 **C. palaeogama** Gn. General and not rare. Var. *phalanga* Grt. occurs: **SI**; **LI**: Wading R.; Forest Pk. Var. *annida* Fager was found at Hemlock L., Sep 1, 1916, with the type. Aug–early Sep. Hickory and walnut.

3022 **C. consors** S. & A. **LI**: Brooklyn; Woodhaven. Hickory.

3024 **C. muliercula** Gn. Rye; Van Cort. Pk., common (Wat); **SI**; common on **LI**. Myrica.

3030 **C. serena** Edw. Schenectady; West Farms. Aug. Hickory.

3025 **C. antinympha** Hbn. Saranac L.; Buffalo; Ithaca; Oneonta; Schenectady; Karner; Poughkeepsie; Millbrook; Rye; **SI**; **LI**: common and general. Jl–Sep. Comptonia.

3027 **C. badia** G. & R. Rye; Van Cort. Pk., common (Wat); **SI**; **LI**, common and general. Jl–Sep. Myrica.

3026 **C. coelebs** Grt. Fentons; Schenectady. Aug.

3028 **C. habilis** Grt. Waddington; Rochester; Buffalo; Orchard Pk. and Gowanda (*Wild*); Ithaca; Binghamton; Hebron; Schenectady; Albany; Millbrook; New Windsor; Rye; **SI**; **LI**: Woodhaven (Eng). Aug–Sep. Hickory.

3114 **C. clintonii** Grt. Evans Center; Buffalo; Ithaca; Sharon Sps.; Schenectady. Jl. Rosaceae. This and the next six species represent a group whose members, so far as known, feed on Rosaceae.

3104 **C. polygama crataegi** Saund. Jamestown; Evans Center; Lancaster; Otto; Ithaca; Stony Clove, Greene Co; Ilion; Sharon Sps.; Schenectady; Albany; Croton-on-Hudson (Ds); **LI:** Brooklyn (*Doll*). Late Jl–Aug. Rosaceae, especially thorn.

3104.1 **C. pretiosa** Lint. Schenectady (type); Rhinebeck; Rye. Rosaceae.

3107 **C. praeclara** G. & R. General. Aug. Rosaceae.

3113 **C. dulciola** Grt. "NY". Jl. Rosaceae.

3106 **C. grynea** Cr. Sharon; Schenectady; Albany; Rhinebeck; Millbrook; Poughkeepsie; Rye; NYC; **SI; LI.** Apple and plum.

3094 **C. gracilis** Edw. Everywhere in the State; not rare. Jl–Aug. Rosaceae.

3116 **C. minuta** Edw. Poughkeepsie; West Farms; NYC; **SI; LI:** Brooklyn; Woodhaven; Aqueduct; Yaphank. Jl–Aug. Gleditsia.

3119 **C. connubialis** Gn. (*amasia* auct.). Rochester; Schenectady; NYC. Presumably on oak, originally figured on Cephalanthus.

3118 **C. cordelia** H. Edw. West Farms (Angus). Presumably on oak.

3115 **C. similis** Edw. Ithaca; West Farms; **LI:** Yaphank and Riverhead (Ds). Jl. Oak.

3117 **C. fratercula** G. & R. E. Aurora (*Wild*); Albany; Sullivan Co; **LI:** Yaphank and Fire Place (Ds). Jl–Aug. Oak.

3120 **C. amica** Hbn. Ithaca, Aug 1, 1901; Ulster Co; Millbrook; Rye; **SI; LI,** generally. Oak.

SUBFAMILY **NYCTEOLINAE**

(*Sarrothripinae*)

BAILEYA Grote

3016 **B. ophthalmica** Gn. Peru; Saranac L.; Evans Center; Lancaster; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; **SI.** Late May–early Jl.

3015 **B. doubledayi** Gn. Plattsburg; Saranac L.; E. Aurora (Wild); Castile, *Brad*; Karner; Newton; **SI** (Ds); **LI:** E. New York, *Shoe* (Ds). Je–Jl.

3018 **B. dormitans** Gn. Castile, Je, *Brad* (Fbs); Evans Center; Trenton Falls (type); Ilion; **LI:** Newtown (Doll); Queens (*Bell and Eng*). Je–early Jl.

NYCTEOLA Hübner

3012 **N. revayana lintnerana** Spey. Keene Val.; Fentons; Chautauqua, *Cy*; Ithaca; Lancaster; Onteora Mt., *How*; Schenectady; NYC; **LI:** Brooklyn. Je 27; Aug. Willow.

CHARACOMA Walker

3011 **C. nilotica** Rog. (*proteella* Dyar). Lewiston, *EPV*; Chautauqua; Ithaca: Utica. Jl–Aug. Willow and tamarisk.

SUBFAMILY EUTELIINAE

PAECTES Hübner

(*Ingura* Guenée)

3008 **P. delineata** Gn. **LI:** Glendale; Woodhaven. Jasmine.

3007 **P. abrostoloides** Gn. **SI,** Jl–Sep (Ds).

3002 **P. oculatrix** Gn. Evans Center; Lancaster; Ithaca; Poughkeepsie; New Windsor; Rye; Katonah; NYC (Joutel); **SI; LI:** Brooklyn; Wading R. (Ds); Orient, *Lath.* Je–Jl.

EUTELIA Hübner

2997 **E. pulcherrima** Grt. Rye; Bronx Pk.; **LI:** Brooklyn. The moth has been beaten from sumac; larva reported to feed on hickory (Bird).

MARASMALUS Grote

3000 **M. inficita** Wlk. Peru; Rochester (Angle); Lancaster; E. Aurora, *Wild*; Ithaca; Big Ind. Val.; Debruce; Schenectady; Poughkeepsie; Katonah; Rye; Nyack (Ds); Bronxville; **SI; LI:** Jamaica. Je–Aug. Sumac (Reidy).

2999 **M. basalis** Grt. (*ventilator* Grt.). Rye; Bronxville; **LI:** Jamaica. Je–Jl.

SUBFAMILY ERASTRIINAE

TARACHE Hübner

2989 **T. terminimaculata** Grt. Geneva; Lancaster; Ithaca; Sharon; Albany (type); Poughkeepsie; New Windsor. May–Jl.

2992 **T. delecta** Wlk. Rye; **SI,** salt meadow, Je (Ds); **LI:** Aqueduct; Woodhaven. Hibiscus.

TARACHIDIA Hampson

2952 **T. ereastrioides** Gn. General and common. Je–Sep. Ambrosia.

2956 **T. candefacta** Hbn. General, and as common as the preceding species. May–Aug. Ambrosia.

2965 **T. semiflava** Gn. Rhinebeck; **LI:** Yaphank; Merrick. Je.

SPRAGUEIA Grote

2930 **S. leo** Gn. **SI,** Sep.

XANTHOPTERA Guenée

2922 **X. nigrofimbria** Gn. **LI:** Yaphank (Eng).

EXYRA Grote

2917 **E. rolandiana** Grt. Should be well distributed in the State on pitcher plant (*Sarracenia purpurea*). I have seen its work at McLean on pitcher plant (Fbs). May–Je.

CRYPHIA Hübner

—— **C. pervertens** B. & McD. (*secta* auct., *aetheria* auct.). E. Aurora (Wild); Big Ind. Val.; Ilion; **SI**, Je (Ds); **LI**: Forest Pk., Glendale, Coram, *Kch* (Fbs). Late Je–Jl.

LITHACODIA Hübner

(*Eustrotia* Hübner)

2898 **L. bellicula** Hbn. Fentons; McLean; Trenton Falls; S. Trenton; Nassau; Poughkeepsie; **SI**; **LI**: Brooklyn; Yaphank. Late Je–Aug.

2895 **L. albidula** Gn. Common everywhere. Je–early Aug.

2897 **L. concinnimacula** Gn. Plattsburg; Peru; Fentons; Keene (Wild); Geneva; Lancaster; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Schenectady; Karner; **LI**: Jamaica; Glendale. May–Jl.

2894 **L. synochitis** G. & R. Plattsburg; Peru; North Cr.; E. Aurora, West Falls (Wild); Rochester (Angle); Castile, *Brad*; Ithaca; Big Ind. Val.; Schenectady; Poughkeepsie; **SI**; **LI**: Lynbrook. May–Aug.

2899 **L. musta** G. & R. Ithaca, Je 30, Jl 2; Schenectady; **LI**: Newtown (Eng).

2902 **L. muscosula** Gn. Common and general. Je–Sep.

2901 **L. apicosa** Haw. Apparently general, including **LI**: Forest Pk. (Doll). Late May–Sep.

2900 **L. carneola** Gn. With the preceding species, and far more common. End of Je–early Oct. Yellow dock.

CHAMYRIS Guenée

2891 **C. cerintha** Tr. Plattsburg; Peru; Clayton; Geneva; Evans Center; Buffalo; E. Aurora; Ithaca; Binghamton; Sharon Sps.; Schenectady; Albany; Nassau; Rhinebeck; **SI**; **LI**, general. Je–Jl. Wild cherry.

ARGILLOPHORA Grote

2890 **A. furcilla** Grt. Saranac L. (McKnight).

SUBFAMILY ACRONYCTINAE

PSYCHOMORPHA Harris

2832 **P. epimenis** Dru. Sloatsburg; **SI**; **LI**; Jamaica; Woodhaven; Massapequa. Ap–May. Grape.

EUTHISANOTIA Hübner

(*Eudryas*)

2829 **E. unio** Hbn. Waddington; Rochester (Angle); Buffalo; Lancaster; Moravia; Castile, *Brad*; Ithaca; McLean; Trenton Falls; Oneonta; Rhinebeck; Rye; **SI**; **LI**, general. Late Je–Aug. Epilobium and swamp loosestrife.

2827 **E. grata** Fab. General. Je–Jl. Grape and ampelopsis.

OMMATOSTOLA Grote

2812 **O. lintneri** Grt. **LI:** Rockaway Beach; Glen Cove; Long Beach; Fire I. Originally described from NY. In salt marshes.

SENTA Stephens

2801 **S. defecta** Grt. **SI,** Jl 8, 1912 (Ds).

AMOLITA Grote

2803 **A. fessa** Grt. Peru; Ithaca; McLean; Melrose; New Windsor; Rye; **LI:** Coram. Je–Aug.

CALAMIA Hübner

(*Tapinostola* Lederer)

2798 **C. inquinata** Gn. (*orientalis* Grt.). Buffalo. Aug.
2800 **C. variana** Morr. Saranac L.; Sharon; Nassau. Aug.

ARCHANARA Walker

(*Nonagria*)

2792 **A. subflava** Grt. (*subcarnea* Kell.). Buffalo; Rye. Aug–Sep. *Scirpus occidentalis* (Bird).
2791 **A. oblonga** Grt. Alexandria Bay; Buffalo; Brockport; Ithaca; Rye; **LI:** Newtown (Doll). Jl–Sep 2. Cattail.
2794 **A. laeta** Morr. Plattsburg; W. Seneca; Brockport; Buffalo. Jl–Aug. Sparganium (Bird).

BELLURA Walker

2788 **B. gortynoides** Wlk. Ithaca (larvae, Comstock); Albany; **SI; LI:** Newtown (Doll). Caterpillars in water lilies.
2789 **B. melanopyga** Grt. **SI.**
2790 **B. diffusa** Grt. Saranac L., Je; **LI:** Glendale, Aug, *Kch.*

ARZAMA Walker

(*Sphida* Grote)

2785 **A. densa** Wlk. **LI:** Sag Harbor; Orient, *Lath.* Cattail.
2784 **A. obliqua** Wlk. Buffalo; E. Aurora; Rock City (Ds); Ithaca; McLean (larvae); Schenectady; Albany; Rye; **SI; LI.** "Northern NY". End Ap–Je. Cattail.

PLAGIOMIMICUS Grote

2767 **P. pitychromus** Grt. Buffalo; Schenectady; Albany; Poughkeepsie; Rye; Florida; **SI.** Aug.

STIRIODES Hampson

(*Metoponia*)

2763 **S. obtusa** H-S. Rye; **SI,** Je–Jl (Ds); **LI:** Forest Pk.

DERRIMA Walker

2758 **D. stellata** Wlk. The normal form, *henrietta* Grt., has been taken at: Rye; **LI**: Amagansett; Yaphank. Je–Aug.

ENARGIA Hübner

(*Cosmia* Ochsenheimer)

2757 **E. decolor** Wlk. (*paleacea* Esper). Cranberry L., *Htly*; New Russia; Spier Falls (NYS); Fentons; Lancaster; Chautauqua Co; Ithaca; McLean; Schenectady; Albany; Hudson; **LI**: Woodhaven. Aug–Sep. Poplar.

CIRRHOPHANUS Grote

2736 **C. triangulifer** Grt. Rye; **SI**, Aug, *Fulda* (Ds).

COSMIA Ochsenheimer

2735 **C. orina** Gn. Buffalo (*Wild*); Ithaca; **LI**: Wading R.; Yaphank. Jl–Aug. Oak and other trees, feeding by preference on other caterpillars.

BAGISARA Walker

(*Atethmia*)

2730 **B. rectifascia** Grt. Rye (Bird); **LI**: Central Pk. (Doll).

IPIMORPHA Hübner

2724 **I. pleonectusa** Grt. Wilmington; Fentons; Cranberry L., *Htly*; Seneca L.; Rochester; E. Aurora (*Wild*); Evans Center; Ithaca; Sharon; Schenectady. Jl–early Sep. Poplar.

OGDOCONTA Butler

2704 **O. cinereola** Gn. STRIPED GREEN BEAN CATERPILLAR. Evans Center; Lancaster; E. Aurora; Buffalo; Castile; Ithaca; Schenectady; Rhinebeck; New Windsor; Rye; **SI**; **LI**: Mattituck; Orient, *Lath.* Je–Sep.

PAPAIPEMA Smith [75]

(*Gortyna, Hydroecia*)

2658 **P. cerina** Grt. New Windsor; **LI**: Ft. Totten; Glendale. Sep 8–20 (Bird). *Lilium superbum, Podophyllum peltatum* (Bird).

2659 **P. appasionata** Harv. **LI.** Sep 2–19 (Bird). *Sarracenia purpurea*; bores in all species of Sarracenia in the South (Bird).

2661 **P. inquaesita** G. & R. Lancaster; Ithaca; Sullivan Co. (Bird); New Windsor; Rye; **SI** (Ds); **LI**: Amagansett, Aug 15–Sep 19 (Bird). Oct. *Onoclea sensibilis* (Bird).

2662 **P. speciosissima** G. & R. Buffalo (Bird). Sep 6–16 (Bird). *Osmunda regalis* and *O. cinnamomea* (Bird).

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[75] The dates given are those of emergence; adults may be on the wing two weeks later (Bird).

2663 **P. marginidens** Gn. (*birdi* Dyar). Buffalo and E. Aurora (Wild); Ithaca; Rye; **SI; LI.** Aug 20 – Sep 12 (Bird). *Cicuta maculata,* occasionally in large umbellifers (Bird).

2664 **P. baptisiae** Bird. **SI; LI:** Central Pk. Aug 10 – Sep 10 (Bird). *Baptisia tinctoria,* and *B. alba* farther south (Bird).

2666 **P. nepheleptena** Dyar (*moeseri* Bird). "NY" (type); Buffalo (Bird); West Seneca (Bird); **SI** (Bird). Sep 20 – Oct 15 (Bird). *Chelone glabra* (Bird).

2667 **P. furcata** Sm. "LI" (type) (Sm). Aug 30 – Sep 17 (Bird). Terminal twigs of ash, *Fraxinus nigra, F. americana, F. pennsylvanica* (Bird).

2668 **P. circumlucens** Sm. Rye; **SI** (Ds); **LI.** Sep 8–28 (Bird). *Apocynum androsaemifolium,* dogbane (Bird).

2669 **P. humuli** Bird. Poughkeepsie; Rye, type (Bird); **SI** (Bird); **LI** (Bird). Aug 10–28 (Bird). In gall in stem of hop (Bird).

2671 **P. arctivorens** Hamps. Buffalo (Bird). Aug 15 – Sep 4 (Bird). Cirsium and Arctium.

2674 **P. merriccata** Bird. Ithaca, Sep. *Podophyllum peltatum* (Bird).

2676 **P. harrisii** Grt. Buffalo; Karner; **SI** (Ds); **LI.** Aug 20 – Sep 10 (Bird). *Heracleum lanatum.*

P. harrisii var. **rubiginosa** Bird. Buffalo (Bird) (type). Aug 17 – Sep 7 (Bird). *Angelica atropurpurea* and *Heracleum lanatum* (Bird).

2677 **P. astuta** Bird. Rye (type); Buffalo (Bird); Sullivan Co (Bird); **SI; LI.** Sep 7–19 (Bird). *Collinsonia canadensis.*

2681 **P. impecuniosa** Grt. Buffalo and E. Aurora (Wild); Ithaca; Karner; Rye; **SI; LI.** Sep 13 – Oct 6 (Bird). *Aster umbellatus, A. puniceus,* and *Helenium autumnale* (Bird).

2683 **P. purpurifascia** G. & R. COLUMBINE BORER. Franklin Co; Canisteo; Ithaca; Cohoes (Weigel); Corning's Farm, Albany, Aug 15–Sep 10 (Bird); Rye. *Aquilegia canadensis* and cultivated varieties of columbine.

2684 **P. lysimachiae** Bird. Rye (type); Sullivan Co (Bird); **SI; LI** (Bird). Sep 8–28 (Bird). *Lysimachia quadrifolia.*

2685 **P. pterisii** Bird (*triorthia* Dyar). Ithaca; Ilion; Karner; Rhinebeck; Rye (type) (Bird); Sullivan Co (Bird); **LI.** Aug 23–Sep 8 (Bird). *Pteris aquilina* (Bird).

2686 **P. cataphracta** Grt. BURDOCK BORER. Gasport (Cy); Buffalo; E. Aurora (Wild); Caledonia (Cy); Ithaca; Reading Center (Cy); Menands; Albany; New Windsor; Rye (Bird); **SI** (Ds). Sep 19–Oct 8 (Bird). Eupatorium, Rudbeckia, Lilium, Thalictrum, and generally in the larger perennials; Arctium and some cultivated plants (Bird).

P. cataphracta var. **fluxa** Bird. Buffalo (type) (Bird). Aug 28–Sep 14 (Bird). Burdock.

2687 **P. duovata** Bird. Rye (type); **LI,** Sep 25–Oct 10 (Bird). *Solidago sempervirens* (Bird).

2688 **P. imperspicua** Bird. Buffalo; W. Seneca. This reference is somewhat questionable, but the species may be expected in the Adirondacks region (Bird).

2689 **P. rigida** Grt. Buffalo; Lancaster; Ithaca; Cortland; Lestershire; Onondaga Val.; Rye. Sep 12 – 30 (Bird); early Oct. *Heliopsis helianthoides* and *Zizia aurea* (Bird).

[2693 *P. nelita* Strk. Should be found in the State (Bird). *Rudbeckia laciniata* (Bird).]

2694 **P. sciata** Bird. Buffalo and Sullivan Co (Bird); Rye (type); Sep 15 – Oct 17 (Bird). *Veronica virginica.*

2695 **P. frigida** Sm. (*thalictri* Lyman). Buffalo (Bird); Rye; Westchester Co; Sullivan Co (Bird); **LI.** Sep 10–30 (Bird). Thalictrum.

2696 **P. cerussata** G. & R. Buffalo; Rye; **SI; LI:** Woodhaven. Sep 12–30 (Bird). *Vernonia noveboracensis.*

2698 **P. nebris** Gn. and var. **nitela** Gn. COMMON STALK-BORER. Buffalo; E. Aurora (Wild); Lancaster; Schenectady; Albany; Middletown; Rye; Monsey; **SI; LI:** Central Pk. and Wading R. (Ds). Sep 15–Oct 4 (Bird). Preferred food-plants of the subfamily Ambrosiaceae (Bird).

2699 **P. duplicata** Bird. Rye (type); **SI; LI:** Jamaica. Sep 28–Oct 18 (Bird). *Collinsonia canadensis* is the only known food-plant (Bird).

2700 **P. necopina** Grt. (*impertubata* Bird). Lancaster, Buffalo, E. Aurora, and Allegany Pk. (Wild); Westchester Co and LI references almost surely belong to *maritima* (Bird). Aug 24–Sep 20. *Helianthus divaricatus* (Bird).

2701 **P. maritima** Bird. Lancaster; Ithaca; Rye (type); southern Westchester Co (Bird); **SI** (Ds). Sep 15–Oct 10 (Bird). *Helianthus giganteus* (Bird).

2703 **P. eupatorii** Lyman. Buffalo, Rye, and Sullivan Co (Bird). Sep 10–21 (Bird). *Eupatorium purpureum* (Bird).

PYRRHIA Hübner

P. umbra Hbn. Lancaster, E. Aurora, and Buffalo (*Wild*); Rock City; Ithaca; Karner; Poughkeepsie; **SI,** Aug (Ds); **LI:** Newtown; Aqueduct. Ononis, Geranium, Alnus, and cultivated Rhododendron (Wild).

P. exprimens Wlk. Fentons; Clayton; Rochester; Buffalo; Ithaca; Schenectady; Albany; Rye (Bird); **SI,** Jl (Ds). The suffused var. *angulata* Grt. was described from Buffalo, and has been taken also at Utica (CU).

RHODOECIA Hampson

R. aurantiago illiterata Grt. Poughkeepsie; Rye (Bird); **SI; LI:** Riverhead (Ds). Jl–early Aug. Seeds of *Afzelia macrophylla* (Braun).

GORTYNA Ochsenheimer

G. immanis Gn. HOP BORER. Plattsburg; Ithaca; Waterville; Sangerfield; Oneonta; New Windsor; Rye (Bird); **LI:** Yaphank (Ds). Aug 20–Sep 12 (Bird). Works at the crown of *Humulus Lupulus,* but does not actually mine the stem; also at root of Silphium, in Ill. (Bird).

G. stramentosa Gn. Ithaca, Sep (Fbs); Rye (Bird); Sullivan Co (Bird); **LI:** Glendale, *Kch.* Aug 20–30 (Bird). Root of *Scrophularia leporella* (Bird).

XANTHOECIA Hampson

(*Ochria* auct.)

X. buffaloënsis Grt. (*latia* Strk.). Buffalo, Sep 20 (Bird). *Saururus cernuus.*

ACHATODES Guenée

A. zeae Harr. Plattsburg; Fentons; Geneva (NYS); E. Aurora; Jamestown; Colden; Evans Center; Buffalo; Ithaca; McLean; Trenton Falls; Rye (Bird); **SI; LI:** Brooklyn; Jamaica; Orient, *Lath.* Jl–Aug. Bores in elder.

APAMEA Ochsenheimer

(*Hydroecia*)

A. u-album Gn. "NY" (Sm, Neumoegen).

A. velata Wlk. Peru; Essex Co; Fentons; Keene (Wild); Clayton; Geneva; Evans Center; Buffalo; E. Aurora (*Wild*); Castile, *Brad*; Ithaca; McLean; Binghamton; Big Ind. Val.; Onteora Mt.; Schenectady; Albany; New Windsor; Sullivan Co (Ds); Florida; Durlandville; Katonah; Bronxville; Rye; **SI; LI:** Orient, Oct 30, *Lath.* Je–early Aug. Bores in Carex (Bird); recorded also from anemone, but this is undoubtedly an error (Bird).

A. nictitans Borkh. Common throughout the State. The var. *erythrostigma* Haw. is also common and general. End of Jl–Sep. "Grass" (in Europe). The larvae probably work at roots of grass, or, more likely, of some sedges (Bird).

A. erepta ryensis Bird. Rye, Je 25–Jl 6 (Bird). *Tripsacum dactyloides* (Bird).

HELOTROPHA Lederer

2636 **H. reniformis** Grt. Essex Co; Fentons; Buffalo (Wild); Lancaster; Ithaca; Oneonta; Sharon; Schenectady; Rye (Bird); **SI.** The var. *atra* Grt. is dominant southward: Saranac L.; Rochester (Angle); Lancaster; Seneca L.; Ithaca; Sharon; Schenectady; Albany; **SI; LI:** Delhaven; Yaphank. Jl–Sep. Probably on Iris.

2634 **H. caduca** Grt. (*Erastria*). Rye. Nuphar.

2635 **H. retis** Grt. (*Erastria*). "NY" (Barnes Coll.), Jl 2.

XYLOMOEA Staudinger

—— **X. chagnoni** B. & McD. Ithaca (CU), Aug.

MENOPSIMUS Dyar

2513 **M. caducus** Dyar. Peru; Mt. Marcy, trail; Adirondack Lodge; E. Aurora (Wild); Portage; Ithaca; McLean; Trenton Falls; Big Ind. Val. Our smallest noctuid. Probably general but overlooked. May–Sep.

MONODES Guenée

(*Oligia*)

2608 **M. festivoides** Gn. Peru; Adirondack Lodge; Evans Center; Rock City; Portage; Ithaca; Big Ind. Val.; Onteora Mt., *How*; **SI; LI:** Woodhaven; Amagansett; Yaphank. May–Jl.

2607 **M. chalcedonia** Hbn. Reported from: Saranac L.; Lancaster; Buffalo. I have seen no specimens from the north, and suspect the records are based on brilliant individuals of the preceding. May–Je.

2606 **M. versicolor** Grt. Buffalo; Lancaster. Jl. Dead leaves of pine and balsam fir or oak(?).

2611 **M. grata** Hbn. Gowanda, Je (*Wild*).

BALSA Walker

2600 **B. malana** Fitch. MANY-SPOTTED APPLE WORM. General. May–Aug. Apple.

2601 **B. tristrigella** Wlk. General, and quite as common, as a rule, as the preceding species. Ap–Je, Aug.

2602 **B. labecula** Grt. Evans Center; Ithaca; McLean; Albany; Poughkeepsie; **LI:** Forest Pk.; Brooklyn. May–early Je; Aug.

PLATYSENTA Grote

2598 **P. videns** Gn. Peru; Saranac L.; Waddington; Rochester; Ithaca; Poughkeepsie; Rye; **SI; LI:** Newtown; Woodside. Larvae exposed on panicles of several late-flowering perennials, where they eat the ovules (Bird). May–early Sep.

CRAMBODES Guenée

2595 **C. talidiformis** Gn. Saranac L.; Lancaster; Ithaca; McLean; Schenectady; Albany; Rhinebeck; Rye; **SI; LI:** Newtown. Je–Sep. Verbena.

GALGULA Guenée

2592 **G. hepara** Gn. (♂ *partita* Gn.). Buffalo; E. Aurora; Gowanda; Ithaca; Schenectady; New Windsor; **SI; LI:** Brooklyn. Je–Jl; Sep–Oct.

PROXENUS Herrich-Schaeffer

2590 **P. miranda** Grt. General and not rare. Je–early Jl; Aug–early Oct. Apparently a cutworm.

CARADRINA Ochsenheimer [76]

2579 **C. meralis** Morr. "NY" (Lint). Not seen.

2577 **C. multifera** Wlk. Plattsburg; Cascade L. (Adirondacks); Fentons; Ithaca; Big Ind. Val.; Onteora Mt., *How*; Sharon; Schoharie; Kaaterskill; **LI:** Brooklyn. Aug–Sep.

2578 **C. extima** Wlk. **LI:** Brooklyn (this may be the species reported as *meralis*).

2581 **C. tarda** Gn. (*Anorthodes prima* Sm.). E. Aurora (*Wild*); Ithaca; **LI:** E. New York. Jl–early Sep.

LAPHYGMA Guenée

2574 **L. frugiperda** S. & A. FALL ARMY WORM. General, northward to Schenectady, Utica, Ithaca, Buffalo; Fentons. The var. *obscura* Rly. is general with the species. Jl–early Oct.

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[76] The larvae of this genus are cutworms.

PRODENIA Guenée

2568 **P. dolichos** F. (*commelinae* S. & A.). Seneca L.; Rye; **SI**; **LI**: Brooklyn (Ottol). Je; Aug–Oct. General on low plants.

2569 **P. ornithogalli** Gn. COTTON CUTWORM. Lewis Co (a stray migrant); Lancaster; Buffalo; Rye; **SI**; **LI**: Brooklyn; Woodbury; Yaphank. Aug–Oct. General on low plants.

CATABENA Walker

2564 **C. lineolata** Wlk. Plattsburg; Evans Center; Lancaster; E. Aurora; Ithaca; Sharon; Schenectady; Albany; **LI**: Orient, *Lath.* May–Je, late Jl–Aug. Goldenrod, nettle (Wild).

HYPPA Duponchel

2499 **H. xylinoides** Gn. Common everywhere; on **LI** to Yaphank. May–Je, Aug–Sep. A general feeder, probably a cutworm.

ANDROPOLIA Grote

(*Polia*)

2518 **A. contacta** Wlk. Fentons, *Hill*; Cranberry L., *Htly* (Dyar). Late Aug.

DELTA Hampson

(*Actinotia*)

2515 **D. ramosula** Gn. Essex Co; Fentons; Buffalo; E. Aurora; Enfield; Ithaca; Lestershire; Pine Hill; Onteora Mt., *How*; Sharon; Schenectady; Albany; New Windsor; **SI**; **LI**: Central Pk.; Yaphank. May–Je; Aug–Sep.

ARSILONCHE Lederer

2514 **A. albovenosa henrici** Grt. Common everywhere. Definite records are: Plattsburg; Newport; Geneva; Buffalo; Ithaca; Binghamton; Lestershire; Albany; Kinderhook; Brewster; Rye; **SI**. Ap–Aug. Low plants, especially coarse grass-like plants.

MEROLONCHE Grote

M. dolli B. & McD. **LI**: Central Pk., Ap, *Kch* (types).

APATELA Hübner

(*Acronycta* Ochsenheimer)

2498 **A. rubricoma** Gn. "NY" (Guenée). **LI**: Woodhaven. Mar–May; Jl–early Sep. Celtis.

2491 **A. americana** Harr. AMERICAN DAGGER MOTH. Common throughout the State. May–Jl. Maple.

2495 **A. hastulifera** S. & A. Karner; **SI**, Je–Jl (Ds); **LI**: Newtown. The species is doubtless general, but in the imago it is very difficult to distinguish from the next. Alder.

2492 **A. dactylina** Grt. Peru; Wilmington; Mt. Whiteface (larvae); Fentons; Rochester; Buffalo; E. Aurora; Castile, *Brad*; McLean (Fbs); Ithaca; Utica; Binghamton; Schenectady; Albany; New Windsor; **SI; LI:** Newtown (Doll). May–Jl. Speckled alder (Wild).

2486 **A. leporina vulpina** Grt. Keene Val.; Catskills. Poplar, willow, and birch. The asymmetrical larva is distinctive and to be looked for all over the State.

2483 **A. populi** Rly. Waddington; Plattsburg; May–Je; Oct. Poplar.

2480 **A. lepusculina** Gn. Fentons; Ithaca; Buffalo. Je.[77]

2485 **A. chionochroa** Hamp. **LI** (Hamp).

2490 **A. innotata** Gn. Everywhere, Plattsburg to Evans and **LI.** Je–Jl. Birch.

2492 **A. betulae** Rly. **LI** (Smith & Dyar). May; Sep. Birch.

2473 **A. morula** Grt. Plattsburg; Fentons; Clayton; Rochester; Kendall; Lancaster; Evans Center; Otto; Ithaca; Schoharie; Schenectady; Rye; **SI; LI.** May; Jl. Elm, apple, and linden.

2474 **A. interrupta** Gn. (*occidentalis* G. & R.). Peru; Fentons; Geneva; Rochester; Kendall; Buffalo; E. Aurora; Ithaca; Big Ind. Val.; Trenton Falls; Oneonta; Schenectady; Albany; New Windsor; Mt. Vernon; **SI; LI:** Woodhaven; Greenport; Orient Pt.; Shelter I. May–Sep. Elm, apple, plum, and birch.

2466 **A. elizabeta** Sm. E. Aurora (Wild); Ithaca; **LI:** Prospect Pk., Brooklyn; Queens (*Bell* and *Eng*). Probably a dark variety of the preceding, which will occur rarely through the State. Aug.

2460 **A. laetifica** Sm. Evans Center, Jl.

2464 **A. lobeliae** Gn. Fentons; Buffalo; Evans Center; Rock City (Ds); Ithaca; Oliverea (Ds); Rhinebeck; Ft. Montgomery (Ds); Rye; **SI; LI:** Brooklyn; Aqueduct (Ds). Ap–Aug. Wild cherry (not Lobelia).

2463 **A. furcifera** Gn. E. Aurora (Wild); Crosby; New Windsor; **LI:** Newtown; Hempstead Plain. May; Jl–Aug.

2461 **A. hasta** Gn. Lewis Co; Otto; Castile, Je, *Brad* (Fbs); E. Aurora; Ithaca; Oliverea (Ds); **SI; LI:** Hempstead Plain; Babylon. As no structural examination was made, the records for this group are slightly doubtful. Some Ithaca specimens, at least, are of var. *telum* Gn. May–Aug. (Oct, Mar). Wild cherry.

2470 **A. radcliffei** Harv. Fentons; Evans Center; Onteora Mt., *How*; Schenectady; Karner; Albany; Oliverea (Ds); Rhinebeck; New Windsor; West Pt.; Rye; **LI:** Yaphank. Late Ap–Je. Wild cherry.

2475 **A. spinigera** Gn. (*harveyana* Grt.). E. Aurora, Jl 13, 1918, *Dnd*; Oliverea and West Pt. (Ds); **SI; LI:** Wading R., Yaphank (Ds). May–Jl.

2438 **A. pruni** Harr. (*clarescens* auct.). Ithaca; Schenectady; **SI; LI:** Brooklyn; Jamaica; Wading R. (Ds). May–Jl northward, May–Je and Aug–Sep on SI. Apple, cherry, etc.

2448 **A. subochrea** Grt. (*hamamelis* auct.). E. Aurora, *Wild* (Fbs); Ithaca; Oliverea. May–Aug. Hamamelis; beech (Wild).

2447 **A. superans** Gn. Mt. Whiteface (Ds); Keene Val.; Lewis Co; Clayton; Buffalo; E. Aurora; Evans Center; Rock City; De Bruce; Liberty; Oliverea (Ds); Onteora Mt., *How*; Schenectady; Albany; Rye; **LI:** Flatbush. Je–Aug. Apple, birch, etc.

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[77] The New York record for *insita* Smith was evidently due to a confusion of labels, as the New York specimens returned by him with the *insita* label are apparently *lepusculina*.

2502 **A. lithospila** Grt. Evans Center; Ulster Co; Karner; Albany; **SI; LI:** Aqueduct; Bellport. May–Je; Aug. Chestnut and oak.

2465 **A. tritona** Hbn. Fentons; Evans Center; Karner; Albany; **SI.** May, Sep. Vaccinium and other Ericaceae.

2433 **A. connecta** Grt. Evans Center; Buffalo; Lancaster; Sharon Sps.; **SI; LI:** Brooklyn. Jl–Aug. Willow.

2472 **A. funeralis** Grt. Keene Val.; Ithaca; Schoharie; Sharon Sps.; Karner; Washington Hgts., NYC (Wat); **SI; LI:** Brooklyn. May–Je. Hickory, birch, elm, apple, etc.

2440 **A. fragilis** Gn. Plattsburg; Peru; Keene Val.; Indian Pass, Mt. Marcy; Fentons; Rochester; Lancaster; Salamanca (Wild); Ithaca; Onteora Mt., *How*; Big Ind. Val.; Schenectady; Rye. Je–Aug. Birch.

2428 **A. vinnula** Grt. Plattsburg; Evans Center; Buffalo; Rochester (Angle); Schenectady; Albany; Poughkeepsie; New Windsor; Rye; **SI; LI.** May–Aug. Elm.

2469 **A. grisea** Wlk. Plattsburg; Keene Val.; Fentons; Karner. Je–Jl. Birch, etc.

2467 **A. falcula** Grt. "NY", very possibly an error. Hazel.

2450 **A. afflicta** Grt. (*hamamelis* auct.). Ithaca; Karner; Albany; Rye; NYC; **LI:** Brooklyn. Mar; late May–Je; Aug. Oak.

2432 **A. albarufa** Grt. Karner; Albany; **LI:** Central Pk. May–Jl.

2452 **A. increta** Morr. Evans Center; E. Aurora, Irving, Rock City (Wild); Big Ind. Val.; West Pt. (Ds); Stony Clove; **SI; LI:** Brooklyn. Sep. Beech (Wild).

2451 **A. hamamelis** Gn. (*tristis* Sm.). Ithaca, May 31, 1918; **LI:** Aqueduct (Eng).

2435 **A. modica** Wlk. Schenectady; Albany; Rhinebeck; Rye; **SI; LI:** Forest Pk. (Doll). Je–Jl. Oak.

2436 **A. ovata** Grt. Buffalo (Wild); Ithaca; Schenectady; Albany; New Windsor; West Pt. (Ds); **SI; LI:** Lynbrook; Bellport, Wading R. (Ds). May–Jl. Oak.

2444 **A. inclara** Sm. (*hamamelis* Sm., *brumosa* auct.). Franklin Co; Onteora Mt., *How*; Ithaca (transitional to *tristis* Sm.); Florida; **LI:** Bellport. Je–Jl.

2437 **A. haesitata** Grt. Ithaca; Little Falls; Albany; New Windsor; Florida; **SI; LI:** Cold Sp., Yaphank, Southold (Ds). May–Je; Jl.

2453 **A. retardata** Wlk. Everywhere in the State, Peru to Hempstead Plain, **LI.** Je–Jl. Maple.

2454 **A. caesarea** Sm. E. Aurora, Je 9, 1918 (*Dnd*); **LI:** Brooklyn. Maple? (bred with *retardata*).

2434 **A. exilis** Grt. Schenectady; Albany; **LI:** Brooklyn.

2501 **A. sperata** Grt. Buffalo and E. Aurora (Wild); Ithaca; Schenectady; Karner; Albany; Liberty; Big Ind. Val.; Rhinebeck; New Windsor; Rye; **LI:** Bellport, *Nic* (Ds). May–Aug. Low bushes, such as poplar and alder.

2449 **A. noctivaga** Grt. General but not common. May–Aug. Low bushes.

2496 **A. impressa** Wlk. Buffalo and E. Aurora (*Wild*); Geneva; Ithaca; Garrison. The imago is hardly distinguishable from the next following species. May; Jl; Aug–Sep. Willow.

2497 **A. distans** Grt. Peru; Waddington; Onteora Mt., *How*; Karner; Bedford; **LI**: Queens; Yaphank. This is very generally determined as *impressa*, and may not be really distinct. May; Jl 31–Aug 3. Willow.

2499 **A. longa** Gn. (*xyliniformis* Gn.). Lake Placid; Buffalo and West Falls (*Wild*); Karner; New Windsor; **SI**; **LI**: Brooklyn; Bellport, *Nic* (Ds). May–Jl. Low bushes.

2455 **A. impleta** Wlk. (*luteicoma* G. & R.). In every part of the State, but not common. May–early Jl; Aug–Sep. Prunus, poplar, etc.

2508 **A. oblinita** S. & A. SMEARED DAGGER MOTH. Evans Center; Lancaster; Buffalo; E. Aurora; Honeoye Falls; McLean; Binghamton; Albany; Poughkeepsie; and very common southward. End of Ap–Sep. Low shrubs and herbs.

[2509 *A. lanceolaria* Grt. Is to be expected in the State. Low bushes.]

AGRIOPODES Hampson

(*Diphthera*)

2419 **A. fallax** H-S. Fentons; Buffalo; Albany; Rye; **SI**; **LI**: Glendale, Southhaven. May–Aug. Viburnum.

2423 **A. lepidula** Grt. Adirondacks; Alexandria Bay, *Kch* (Fbs); Evans Center; Buffalo; Ithaca; Rhinebeck. Je–Jl. Var. *avirida* Sm. is reported by Hampson from "NY".

2424 **A. teratophora** H-S. Lancaster; Ithaca; Catskill; Rhinebeck. Je–Aug.

LEUCONYCTA Hampson

(*Microcoelia*)

2418 **L. diphteroides** Gn. General. Var. *obliterata* Grt. is commoner than the type. May–Jl. Solidago (Dyar).

POLYGRAMMATE Hübner

2417 **P. hebraeicum** Hbn. Rye; **LI**: Forest Pk., *Kch*; Flushing (Bell). Jl. Nyssa.

CERMA Hübner

2415 **C. galva** Strk. Clyde. A lost species, most likely not from NY.

HARRISIMEMNA Grote

2404 **H. trisignata** Wlk. New Russia, *Jones*; Buffalo; Ithaca; Catskills (Ulster Co); Coeymans; New Windsor; **SI**; **LI**: Brooklyn. Je–Jl. Ilex, lilac.

CHYTONIX Grote

2400 **C. palliatricula** Gn. Mt. Marcy; Evans Center; Ithaca; Onteora Mt., *How*; Trenton Falls; De Bruce; Big Ind. Val.; Schenectady; Rhinebeck; Poughkeepsie; West Pt. (Ds); **SI**; **LI**: Central Pk. and Riverhead, Aug (Ds). The rather commoner var. *iaspis* Gn. does not figure in published records, but has been seen from Peru; N. Creek; Buffalo; Rock City; Ithaca; Big Ind. Val.; **LI**: Pine Haven. May–Jl.

2401 **C. sensilis** Grt. **LI**: Riverhead. Early Aug.

2399 **C. chlorostigma** Harv. (*viridimusca* Sm.). Poughkeepsie.

FAGITANA Walker

2396 **F. littera** Gn. Adirondacks; Poughkeepsie; Rye.

CALLOPISTRIA Hübner

(*Eriopus*)

2392 **C. monetifera** Gn. Plattsburg; Peru; Fentons; Newcomb; Evans; Buffalo; E. Aurora; Ithaca; Liberty; Onteora Mt., *How*; Lestershire; Utica; Karner; Poughkeepsie; Bronxville; **SI; LI**: Forest Pk., *Kch*; Wading R. (Bird). Je–Jl. Larva on ferns.

2391 **C. mollissima** Gn. Peru; Fentons; Evans Center; Lancaster; E. Aurora; Salamanca; Ithaca; Liberty; De Bruce; Trenton Falls; Karner; Poughkeepsie; Rye; **SI; LI** (Ds). Larva on ferns. May–Jl.

CONSERVULA Grote

2386 **C. anodonta** Gn. Sharon Sps. Jl–Aug.

CHUTAPHA Moore

(*Trigonophora*)

2385 **C. periculosa** Gn. General, the var. *v-brunneum* Grt. from: Fentons; Buffalo; E. Aurora; Ithaca; McLean; Karner; **LI**: Woodhaven, Yaphank. Jl–early Sep. Food general, larva probably a cutworm.

BROTOLOMIA Lederer

2384 **B. iris** Gn. Plattsburg; Peru; Fentons; Clayton; Geneva; Evans Center; Lancaster; E. Aurora; Buffalo; Ithaca; McLean; Binghamton; Onteora Mt., *How*; Stony Clove; Big Ind. Val.; Utica; Schenectady; Albany; Rye; Van Cort. Pk. (Wat); **SI; LI**: Woodhaven. Je–Aug. Larva a cutworm (Wehrle).

LUPERINA Boisduval

(*Hadena*)

2380 **L. passer** Gn. General and common northward, including E. Aurora; Poughkeepsie; Big Ind. Val.; Katonah; **SI**. Var. *conspicua* Morr. is from: Peru; Ithaca. Je–Jl, stragglers to Sep. Larva bores in root of *Rumex obtusifolius* (Bird).

2375 **L. trigona** Sm. Albany.

2369 **L. burgessi** Morr. **LI**: Brooklyn; E. New York; Jamaica. Sep–Oct.

SIDEMIA Staudinger

(*Hadena*)

2367 **S. devastatrix** Brace. GLASSY CUTWORM. A dominant species everywhere. The contrasty form *speciosa* Morr. is much rarer, but apparently general. Jl – early Sep. A cutworm.

MACRONOCTUA Grote

2365 **M. onusta** Grt. IRIS BORER. Lancaster; Ithaca; Saratoga; Ballston (Weigel); Schenectady (Cy); Albany (NYS); Catskills (NYS); Troy (Leon); Rye; Mt. Vernon (Weigel); **LI:** Brooklyn (Weigel). Sep. Bores in Iris, sometimes being injurious; also in *Gemmingia chinensis.*

TAENIOSEA Grote

(*Parastichtis*)

2364 **T. discivaria** Wlk. Plattsburg; Fentons; Evans Center; Lancaster; Catskills; Newport; Sharon; Saratoga; Schenectady; Albany. Form *perbellis* Grt. has been taken at: Plattsburg; Fentons; Evans Center; Otto; Schenectady; Karner. Jl–Aug.

EREMOBIA Stephens

(*Hadena*)

2359 **E. claudens** Wlk. (*leucoscelis* Grt., *hillii* Grt.). Essex Co; Fentons; McLean; Sharon. Late Jl–Aug.

AGROPERINA Hampson

(*Hadena*)

2346 **A. lateritia** Hbn. Peru; Fentons. A cutworm.

2344 **A. dubitans** Wlk. General to Orient, **LI.** Jl–Sep.

2357 **A. helva** Grt. Essex Co; Rochester; Honeoye Falls; E. Aurora; Ithaca; McLean; Oneonta; Schenectady; Rye; NYC; **SI**; **LI:** Brooklyn; Yaphank (Eng). Aug–early Sep.

2356 **A. lutosa** Andrews. Ithaca; Little Falls; Big Ind. Val.; Schenectady; Katonah; **LI.** Jl. An obscure species which will probably prove commoner than here appears.

OLIGIA Hübner

(*Hadena*)

2333 **O. bridghami** G. & R. Rye; **LI:** Aqueduct. Aug.

2335 2337 **O. vulgivaga** Morr. (*semicana* Sm. not Wlk.). LINED CORN BORER. Adirondacks; Hamburg (*Wild*); Ithaca; Rye; **LI:** Brooklyn; Newtown. Aug. The dark var. *misera* Grt. has been taken on **LI:** Wading River. Var. *fractilinea* Grt. is from: Saranac L.; Lancaster; Skaneateles; Ithaca; Binghamton (NYS); Stone Ridge (NYS); Sharon; Glen; Argyle; Schenectady; Karner; Albany; Eagle Bridge; Old Chatham; Poughkeepsie; Rockland; **SI**; **LI:** Orient, *Lath* (NYS). Jl–Aug. Corn and coarse grasses; a minor pest on young corn.

2338 **O. minuscula** Morr. Fentons. Aug.

2340 **O. hausta** Grt. "NY", Sep (Sm.). Should this be referred to *exhausta*?

2341 **O. exhausta** Sm. Schenectady (types); Rhinebeck; New Windsor; Katonah. Sep.

2342a **O. tonsa subjuncta** Sm. Allegany Pk., Aug (*Wild*).

2339 **O. diversicolor** Morr. Ithaca (Fbs); Covert, *Bdy*; Rye (*Bird*). Sep–early Oct. Larva in *Scirpus cyperinus* (Bird).

2343 **O. includens** Wlk. Buffalo; New Windsor; Rye. Larva in *Carex stricta* (Bird).

PERIGEA Guenée

2323 **P. xanthioides** Gn. Rhinebeck; New Windsor; Rye; Katonah; Bronxville; **SI.** May–Sep.

2327 **P. vecors** Gn. Rochester; Evans Center; Lancaster; Ithaca; Onteora Mt., *How*; Schenectady; New Windsor; Rye; **SI**; **LI**: Newtown. May; Aug.

2324 **P. epopea** Cr. Rye; **SI**; **LI**: Woodhaven. Jl–Sep.

2330 **P. sutor** Gn. **SI**; **LI**: Woodhaven; Newtown; Yaphank; Orient (Angle). Aug–Oct.

EUPLEXIA Stephens

2317 **E. lucipara** L. Generally distributed. May–Sep. A climbing cutworm.

TRACHEA Hübner

(*Hadena*)

2271 **T. delicata** Grt. Evans Center; Buffalo; Ithaca; Schenectady; Poughkeepsie; Florida; Durlandville; Pine I. (Ds); **LI**: Brooklyn (Doll). Je–Aug.

2275 **T. inordinata** Morr. **LI**: Lynbrook; Central Pk.; Babylon. Je.

2286 **T. mactata** Gn. Keene Val.; Fentons; Lancaster; E. Aurora, Boston (*Wild*); Ithaca; Ulster Co; Trenton Falls; Schenectady; Albany; Bangall; Storm King; De Bruce and Oliverea (Ds); **LI**: Jamaica (Doll). Sep–Oct.

2283 **T. turbulenta** Hbn. Albany; Rye; NYC; **SI**; **LI**: Brooklyn; Orient, *Lath* (NYS); Riverhead, Jl (Ds). Smilax.

2276 **T. miselioides** Gn. Evans Center; Buffalo; Lancaster; **SI**; **LI**: Newtown; Lynbrook; Orient (Angle). Jl–Sep. Smilax.

2285 **T. remissa indocilis** Wlk. A northern species. Mt. Marcy; Fentons; Evans Center; E. Aurora; Protection; Lancaster; Ithaca; Trenton Falls; Schenectady; Liberty; Big Ind. Val. Je–Jl. Grass.

2312 **T. enigra** Sm. McLean, Jl (CU).

2288 **T. separans** Grt.[78] Ithaca; Castile, Je, *Brad* (Fbs.).

2291 **T. finitima** Gn. Newcomb; Clayton; Lake Forest; Buffalo; E. Aurora; Rock City; Castile, *Brad*; Portageville (Ds); Ithaca; McLean; Big Ind. Val.; Schenectady; Albany; New Windsor; Rye; Florida; **LI**: Wading R.; Montauk Pt. May–Jl.

2315 **T. impulsa** Gn. Saranac L.; Mt. Marcy; Newcomb; Franklin Co; Fentons; Clayton; Evans Center; Buffalo; Lancaster; Rock City; Castile, *Brad*; Ithaca; McLean; Debruce; Liberty; Trenton Falls; Schenectady; **SI**; **LI** (Doll). Late Je–Jl.

2308 **T. modica** Gn. Not rare; general. Je–Aug.

2270 **T. illocata** Wlk. Fentons; Cascade L.; Karner; Ulster Co; **LI**: Yaphank.

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[78] *T. lona* Strk., described from Clyde, is now considered the same as ***runata*** Sm., the western form of *separans*, with incorrect locality.

SEPTIS Hübner [79]

(*Hadena*)

2268 **S. arctica** Lef. YELLOW-HEADED CUTWORM. General; very common, especially northward. Late Je–Aug. A cutworm.

2246 **S. verbascoides** Gn. Newcomb; Fentons; Clayton; Evans Center; Buffalo; E. Aurora; Ithaca; De Bruce; Liberty; Big Ind. Val.; Onteora Mt., *How*; Trenton Falls; Ilion; Schenectady; Rye; **SI; LI:** Woodhaven (Doll). Je–Aug.

2247 **S. nigrior** Sm. Rock City (Ds); Ithaca; McLean; Evans Center; E. Aurora (*Wild*); Schenectady; E. New York. Late May–early Aug.

2248 **S. cariosa** Gn. Lancaster; E. Aurora (Wild); Ithaca; Trenton Falls; Schenectady; **LI:** Jamaica; Orient (Angle).

2251 **S. vulgaris** G. & R. Evans Center; Buffalo (type); Lancaster; Rock City; Ithaca; De Bruce; Schenectady; New Windsor; Ramapo Mts.; **LI:** Woodhaven. Je–Jl.

2250 **S. cristata** Grt. Evans Center; Buffalo.

2253 **S. lignicolor** Gn. General and not rare. Je–Jl.

2269 **S. suffusca** Morr. (*alia* Gn.). Peru; North Creek; Batavia; Buffalo (*Wild*); E. Aurora, *Wild*; Lancaster; Ithaca; Liberty; Schenectady; Albany; Katonah. Je–Jl.

2269a **S. rorulenta** Sm. Peru; Franklin Co; Otto; Ithaca; Sharon; Albany. Jl.

2260 **S. vultuosa** Grt. Mt. Marcy; Fentons; Evans Center; Buffalo; E. Aurora; Lancaster; Castile, *Brad*; Ithaca; McLean; Trenton Falls; Schenectady; Albany. Je–early Jl.

2262 **S. apamiformis** Gn. Fentons; E. Aurora (*Wild*); Clayton; Schenectady. May–Aug. A cutworm.

DIPTERYGIA Stephens

2243 **D. scabriuscula** L. Ithaca; Rogers Rock, L. George (*Jones*); Binghamton (NYS); New Russia (*Jones*); E. Aurora, Buffalo (*Wild*); Schenectady; Poughkeepsie; Rye; **SI; LI:** Lynbrook; Newtown; Greenport. Je–Sep. Rumex, Polygonum.

MAGUSA Walker

2242 **M. orbifera** Wlk. (*dissidens* Felder). **SI:** Richmond Hill; **LI.** A stray from the Tropics. *Condalia ferrea.*

PYROPHILA Hübner

(*Amphipyra* Ochsenheimer)

2241 **P. glabella** Morr. Ithaca. Aug–early Sep.

2239 **P. pyramidoides** Gn. COPPER UNDERWING. Fentons; Rochester (Angle); Castile, *Brad*; Hebron (Wls). General in the Mohawk Val., southward and westward. Aug–early Oct. Grape, maple, and various other plants. Aug–early Oct.

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[79] The larvae of this genus are cutworms.

2240 **P. tragopoginis** L. Fentons; New Russia (*Jones*); Evans Center; Buffalo; E. Aurora; Lancaster; Seneca L.; Ithaca; Sharon; Schenectady; **LI**: Yaphank; Calverton (Ds). Jl–early Sep. A general feeder.

SUBFAMILY CUCULLIINAE

HOMOGLAEA Morrison

2237 **H. hircina** Morr. Plattsburg; Saranac L.; Ithaca, May; Dutchess Co.

XANTHIA Hübner

2233 **X. lutea** Ström (*flavago* Fab.). Plattsburg; L. Placid; Fentons; Buffalo; Karner; Bangall. Willow, preferring the catkins.

BRACHYCOSMIA Hampson

(*Anchocelis*)

2232 **B. digitalis** Grt. Buffalo. Oct.

IODIA Hübner

2231 **I. rufago** Hbn. Rye; **SI**; **LI**: Central Pk.; West Hills (Doll); Bellmore; Massapequa; Yaphank. Ap–May. Willow.

EUCIRRHOEDIA Grote

(*Atethmia*)

2230 **E. pampina** Gn. Wilmington; Fentons; Rochester; Buffalo; E. Aurora; Gowanda; Castile; Ithaca; Lestershire; Schenectady; Karner; Rye; **SI**; **LI**, general. Late Aug–Oct.

PARASTICHTIS Hübner [80]

(*Orthosia* Ochsenheimer in part, *Amathes*)

2224 **P. ralla** G. & R. New Russia; Fentons; Trenton Falls; Seneca L.; Ithaca; McLean; Big Ind. Val.; Bangall. End of Aug–Sep.

2220 **P. bicolorago** Gn. E. Aurora (*Wild*). The var. *ferruginoides* Gn. is common and general; the type form occurs at: Lewis Co; Rochester (Angle); Ithaca; Karner; **LI**: Yaphank. Sep–early Nov.

[2226 *P. inops* Grt. (*Caradrina insipida* Strk.), described from Me. and Wis., should occur in the State. Je.]

2225 **P. puta** G. & R. (*euroa* G. & R.). Wilmington; L. Placid; Fentons; Buffalo; E. Aurora (Wild), Sep 20, 1882; Ithaca; McLean; Trenton Falls; Sharon; Karner. Late Jl–Sep.

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[80] *P. americana* Morr., described from New York, was a European species with incorrect locality.

CONISTRA Hübner

(*Scopelosoma* Curtis, *Glaea*)

2216 **C. indirecta** Wlk.[81] (*moffatiana* Grt.). Franklin Co; Spier Falls; Lancaster; E. Aurora; Ithaca; Big Ind. Val.; Albany; Ramapo (Ds); NYC; **SI; LI:** Central Pk.; Yaphank. Oct–early May. Hamamelis.

2217 **C. pettiti** Grt. Saranac L.; Ithaca. Sep–late Ap.

2218 **C. ceromatica** Grt. Lancaster; Karner. Mar–Ap. Hamamelis.

2212 **C. tristigmata** Grt. Fentons; Cranberry L.; Geneva; Buffalo; Castile, *Brad*; Ithaca (Eyer, Fbs); McLean (seen); Newport; Oneonta; Karner; Albany; **LI:** West Hills, Jamaica (Ds). May. General on trees.

2213.1 **C. walkeri** Grt. Peru; Saranac L.; Geneva; Rochester; Lancaster; Buffalo; Ithaca; Albany; Rye; Fordham; **SI; LI:** West Hills (Ds). Ap–early May.

2213 **C. sidus** Gn. Karner; Rye; **SI; LI:** West Hills (Ds). Var. *vinulenta* Grt. is reported from Karner and Lancaster. Oct–spring.

2214 **C. morrisoni** Grt. Peru; Saranac L.; Geneva; Rochester; Kendall; Buffalo; Lancaster; Ithaca; Saratoga; Karner; Albany; Rye; **SI; LI:** West Hills (Ds). Oct–May.

2215 **C. devia** Grt. Saranac L.; Geneva; Lancaster; Buffalo, Hamburg (Wild); Ithaca; Big Ind. Val.; Albany; Dutchess Co; Rye; **SI; LI:** Brooklyn; Jamaica. Mar–May.

2210 **C. viatica** Grt. Karner; **SI; LI:** Yaphank. Sep. Oak, etc.

2209 **C. inulta** Grt. Fentons; Ithaca; Karner; Albany; **SI; LI:** Yaphank. Sep–Oct. Viburnum.

PSECTRAGLAEA Hampson

2208 **P. carnosa** Grt. **LI:** Central Pk.; Yaphank. Late Sep–Oct.

EPIGLAEA Grote

2207 **E. apiata** Grt. Saranac L.; McLean; Karner; **LI:** Yaphank. Sep–Oct.

2206 **E. decliva** Grt. Karner; Lancaster; Rye.

HARPAGLAEA Hampson

(*Glaea*)

2203 **H. sericea** Morr. E. Aurora (*Wild*); Karner; **SI; LI:** Yaphank. Oct. The similarity between forms of this species and the next makes published records untrustworthy.

2205 **H. pastillicans** Morr. Karner (normal); **LI:** Yaphank (var. *tremula* Harv.). Oct.

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[81] This name is applied to pale or faded spring specimens of the same species as *moffatiana*, and also to an apparently undescribed paler species (possibly *graefiana* Grt.). I cannot sort out the records. (Fbs.)

EUMICHTIS Hübner

(*Hadena*)

2187 **E. ducta** Grt. Franklin Co; Saranac L.; Farnham and E. Aurora (*Wild*); Buffalo. (The last record should be verified.) Aug–Sep.

2188 **E. versuta** Sm. "NY" (Wolley–Dod); E. Aurora, May (*Wild*); (Je in Alberta). Probably a cutworm. Elm and beech.

EUROTYPE Hampson

2178 **E. medialis** Grt. Schenectady (type).

XYLOTYPE Hampson

2177 **X. capax** G. & R. Fentons; Big Ind. Val.; **LI**: pine barrens (Eng). Oct.

XYLENA Ochsenheimer

(*Calocampa* Stephens)

2169 **X. nupera** Lint. Fentons; Buffalo; E. Aurora (*Wild*); Ithaca; Schoharie; Karner; Albany; **LI**: Yaphank. Sep–May.

2174 **X. thoracica** Putn–Cr. Saranac L. (McKnight). The type was from "NY".

2173 **X. cineritia** Grt. Saranac L.; Lancaster; Karner; **LI**: Massapequa; Yaphank; West Hills (Ds). Early spring. Willow.

2171 **X. curvimacula** Morr. Plattsburg; Saranac L.; Buffalo; E. Aurora (*Wild*); Ithaca; McLean; Gloversville; Karner; Rye; Ramapo; **SI**; **LI**: West Hills (Ds). Sep–May. Cutworm.

GRAPTOLITHA Hübner [82]

(*Xylina* Ochsenheimer, in part; *Lithophane* Hübner)

2136 **G. disposita** Morr. Fentons; Jamestown; Buffalo; Schenectady; Karner; Albany; Rye. Sep.

2138 **G. petulca** Grt. Plattsburg; L. Placid; Fentons; Lancaster; Schenectady; Karner; Albany; **LI**: Yaphank.

2134 **G. hemina** Grt. Lewis Co (Grt). Sep–Je.

2132 **G. patefacta** Wlk. Lewis Co; Monroe Co; Ithaca; Karner. Ap.

2153 **G. antennata** Wlk. GREEN FRUIT-WORM. Holley; Karner; Schenectady; Albany; NYC; **SI**; **LI**: Brooklyn to Yaphank. Oct–May. A green fruit-worm of apple, rarer than the following or than *G. insciens*.

2154 **G. cinerosa** Grt. (*laticinerea* Grt., *grotei* Rly.). GREEN FRUIT-WORM. Elma; Buffalo; E. Aurora; Geneva; Ithaca; Kingston; Schenectady; Karner; New Windsor; Rye; **SI**; **LI**: Brooklyn; Bellport; West Hills; Yaphank. Oct–early May. Apple, pear, and maple.

2137 **G. ferrealis** Grt. Fentons; Rochester; Lancaster; Ithaca; Catskills; Schenectady; Karner; Inwood; **LI**: Yaphank. Sep–May.

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[82] All these species of Graptolitha emerge in late fall, overwinter, and reappear in the spring.

2139 **G. signosa** Wlk. (*petulca* Grt.). Ithaca; Karner; Saratoga; **LI:** Yaphank (Eng). Ap.

2133 **G. innominata** Sm. Lewis Co; E. Aurora (*Wild*); McLean; Catskills; Karner. Sep–May.

2141 **G. amanda** Sm. Karner.

2131 **G. bethunei** G. & R. Common and general. Sep–May.

2130 **G. semiusta** Grt. Ithaca, *Benjamin* (Fbs); Sharon; Karner. Ap.

2156 **G. fagina** Morr. Saranac L.; Karner; Albany; **LI:** Yaphank.

2155 **G. georgii** Grt. Cascade L.; Fentons; Essex Co; Lancaster; Albany; Ulster Co (Nic).

2146 **G. viridipallens** Grt. "**LI**", Aug, *Doll* (Sm.).

2150 **G. unimoda** Lint. Loon L.; Fentons; Lancaster; E. Aurora, Sep (*Wild*); Karner; **LI:** Yaphank.

2160 **G. tepida** Grt. Fentons; Big Ind. Val.; Karner; Albany.

2144 **G. baileyi** Grt. Cascade L.; Fentons; Cranberry L., *Htly* (Dy); Buffalo; Lancaster; Karner; Albany; Oliverea (Ds). Sep–Ap.

2158 **G. nigrescens** Engel. Near Albany.

2149 **G. querquera** Grt. Karner.

2167 **G. lepida** Lint. Karner.

2168 **G. lamda thaxteri** Grt. Saranac L.; Karner; Albany; **LI:** Yaphank (Eng). Oct. Myrica (typical *lamda*).

2163 **G. pexata** Grt. Fentons; Lancaster; Buffalo (*Wild*); Schenectady; Karner; Albany; Rye; **LI:** Yaphank. Oct. Probably alder.

LITHOMOIA Hübner

2129 **L. solidaginis germana** Morr. Cascade L.; Fentons; Lancaster; McLean; Karner; Albany. Sep. Vaccinium.

HILLIA Grote

2127 **H. crasis** H-S. Fentons.

2126 **H. algens** Grt. Fentons; Catskills (Pears).

2125 **H. discinigra** Wlk. Karner.

LITHOLOMIA Grote

2124 **L. napaea** Morr. L. Placid; Fentons; **LI:** Yaphank. Ap–May.

COPIPANOLIS Grote

2112 **C. cubilis** Grt. Ithaca; **LI:** L. Ronkonkoma; Central Pk.; Bellmore; Massapequa (Ds). Mar–Ap.

EUTOLYPE Grote

2110 **E. rolandi** Grt. Ithaca; **SI**; **LI:** Queens (Eng). Late Mar–Ap.

2109 **E. depilis** Grt. (*bombyciformis* Sm.). Ithaca. Ap. Both the type commonly called *bombyciformis*, and the gray variety which passes for *depilis*.

2108 **E. grandis** Sm. Ithaca, *Benjamin*. Mar–Ap.

2107 **E. electilis** Morr. (*Psaphidia*). Ithaca, Ap. 30, 1916, *Panoff* (CU). Ap.

PSAPHIDIA Walker

2105 **P. grotei** Morr. Ithaca; Bronx; **SI.** The commonest of the group, at Ithaca. Ap–May.

2104 **P. resumens** Wlk. Ithaca; Bronx; **SI; LI:** Brooklyn; Central Pk. Ap–May.

2106 **P. thaxteriana** Grt. Ithaca; Rye; **LI:** Brookhaven. Mar–May. Oak.

MOMOPHANA Grote

2098 **M. comstocki** Grt. Plattsburg; Saranac L.; Buffalo; E. Aurora (*Wild*); Portage; Ithaca (type); Big Ind. Val. May.

FERALIA Grote

2096 **F. jocosa** Gn. Plattsburg; Fentons; West Seneca; Ithaca; Corinth; New Windsor; Ramapo; Bronx. Common locally. Ap. Hemlock.

2097 **F. major** Sm. Plattsburg; Saratoga; **LI:** Central Pk.; Massapequa. Ap–May.

HOMOHADENA Grote

2080 **H. badistriga** Grt. Lewis Co; Lancaster; Ithaca; Schenectady; Albany. Lintner's record of *infixa* is undoubtedly based on the Lewis Co specimen. Je–Jl. Honeysuckle. Not a cutworm.

ONCOCNEMIS Lederer

2034 **O. saundersiana** Grt. Bangall (Eng). Sep–Mar.

2046 **O. riparia** Morr. Evans Center; Buffalo; Locust Val.; **LI:** Northport; Glencove. Harvey's record of *chandleri* is undoubtedly based on this species (Erie Co).

2061 **O. piffardi** Wlk. (*atrifasciata* Morr.). Fentons; Long L.; **LI.** The last record should be verified.

CUCULLIA Schrank [83]

2005 **C. convexipennis** G. & R. Rather common throughout the State, the caterpillar being seen fully as often as the moth. Je–Aug.

2002 **C. postera** Gn. Mt. Marcy; Fentons; Ithaca, Jl, *Stedman*; Liberty; Sharon; Rhinebeck; Poughkeepsie; New Windsor; **LI:** Glendale, *Kch.*

2003 **C. asteroides** Gn. Common everywhere, the caterpillar often seen. Je–Jl 5; late Aug; late Sep.

1999 **C. florea** Gn. Ithaca; Newburgh; Trenton Falls; Sharon; Ulster Co; Poughkeepsie. May–early Jl.

1993 **C. laetifica** Lint. "NY" (Graef). I have seen the specimen; is it mislabeled? (Fbs).

1992 **C. speyeri** Lint. Rochester, *Angle*; Buffalo (*Wild*): Lestershire; Albany; New Windsor; **LI:** Woodhaven; Pinehaven. Jl.

1997 **C. intermedia** Speyer. General southward to Rochester, *Angle*; E. Aurora, the Catskills, and Albany. End of May–early Je; late Jl–early Sep.

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[83] The larvae in this genus are general feeders, usually on flowers.

2139 **G. signosa** Wlk. (*petulca* Grt.). Ithaca; Karner; Saratoga; **LI:** Yaphank (Eng). Ap.

2133 **G. innominata** Sm. Lewis Co; E. Aurora (*Wild*); McLean; Catskills; Karner. Sep–May.

2141 **G. amanda** Sm. Karner.

2131 **G. bethunei** G. & R. Common and general. Sep–May.

2130 **G. semiusta** Grt. Ithaca, *Benjamin* (Fbs); Sharon; Karner. Ap.

2156 **G. fagina** Morr. Saranac L.; Karner; Albany; **LI:** Yaphank.

2155 **G. georgii** Grt. Cascade L.; Fentons; Essex Co; Lancaster; Albany; Ulster Co (Nic).

2146 **G. viridipallens** Grt. "**LI**", Aug, *Doll* (Sm.).

2150 **G. unimoda** Lint. Loon L.; Fentons; Lancaster; E. Aurora, Sep (*Wild*); Karner; **LI:** Yaphank.

2160 **G. tepida** Grt. Fentons; Big Ind. Val.; Karner; Albany.

2144 **G. baileyi** Grt. Cascade L.; Fentons; Cranberry L., *Htly* (Dy); Buffalo; Lancaster; Karner; Albany; Oliverea (Ds). Sep–Ap.

2158 **G. nigrescens** Engel. Near Albany.

2149 **G. querquera** Grt. Karner.

2167 **G. lepida** Lint. Karner.

2168 **G. lamda thaxteri** Grt. Saranac L.; Karner; Albany; **LI:** Yaphank (Eng). Oct. Myrica (typical *lamda*).

2163 **G. pexata** Grt. Fentons; Lancaster; Buffalo (*Wild*); Schenectady; Karner; Albany; Rye; **LI:** Yaphank. Oct. Probably alder.

LITHOMOIA Hübner

2129 **L. solidaginis germana** Morr. Cascade L.; Fentons; Lancaster; McLean; Karner; Albany. Sep. Vaccinium.

HILLIA Grote

2127 **H. crasis** H-S. Fentons.

2126 **H. algens** Grt. Fentons; Catskills (Pears).

2125 **H. discinigra** Wlk. Karner.

LITHOLOMIA Grote

2124 **L. napaea** Morr. L. Placid; Fentons; **LI:** Yaphank. Ap–May.

COPIPANOLIS Grote

2112 **C. cubilis** Grt. Ithaca; **LI:** L. Ronkonkoma; Central Pk.; Bellmore; Massapequa (Ds). Mar–Ap.

EUTOLYPE Grote

2110 **E. rolandi** Grt. Ithaca; **SI; LI:** Queens (Eng). Late Mar–Ap.

2109 **E. depilis** Grt. (*bombyciformis* Sm.). Ithaca. Ap. Both the type commonly called *bombyciformis*, and the gray variety which passes for *depilis*.

2108 **E. grandis** Sm. Ithaca, *Benjamin*. Mar–Ap.

2107 **E. electilis** Morr. (*Psaphidia*). Ithaca, Ap. 30, 1916, *Panoff* (CU). Ap.

PSAPHIDIA Walker

2105 **P. grotei** Morr. Ithaca; Bronx; **SI.** The commonest of the group, at Ithaca. Ap–May.

2104 **P. resumens** Wlk. Ithaca; Bronx; **SI; LI:** Brooklyn; Central Pk. Ap–May.

2106 **P. thaxteriana** Grt. Ithaca; Rye; **LI:** Brookhaven. Mar–May. Oak.

MOMOPHANA Grote

2098 **M. comstocki** Grt. Plattsburg; Saranac L.; Buffalo; E. Aurora (*Wild*); Portage; Ithaca (type); Big Ind. Val. May.

FERALIA Grote

2096 **F. jocosa** Gn. Plattsburg; Fentons; West Seneca; Ithaca; Corinth; New Windsor; Ramapo; Bronx. Common locally. Ap. Hemlock.

2097 **F. major** Sm. Plattsburg; Saratoga; **LI:** Central Pk.; Massapequa. Ap–May.

HOMOHADENA Grote

2080 **H. badistriga** Grt. Lewis Co; Lancaster; Ithaca; Schenectady; Albany. Lintner's record of *infixa* is undoubtedly based on the Lewis Co specimen. Je–Jl. Honeysuckle. Not a cutworm.

ONCOCNEMIS Lederer

2034 **O. saundersiana** Grt. Bangall (Eng). Sep–Mar.

2046 **O. riparia** Morr. Evans Center; Buffalo; Locust Val.; **LI:** Northport; Glencove. Harvey's record of *chandleri* is undoubtedly based on this species (Erie Co).

2061 **O. piffardi** Wlk. (*atrifasciata* Morr.). Fentons; Long L.; **LI.** The last record should be verified.

CUCULLIA Schrank [83]

2005 **C. convexipennis** G. & R. Rather common throughout the State, the caterpillar being seen fully as often as the moth. Je–Aug.

2002 **C. postera** Gn. Mt. Marcy; Fentons; Ithaca, Jl, *Stedman*; Liberty; Sharon; Rhinebeck; Poughkeepsie; New Windsor; **LI:** Glendale, *Kch.*

2003 **C. asteroides** Gn. Common everywhere, the caterpillar often seen. Je–Jl 5; late Aug; late Sep.

1999 **C. florea** Gn. Ithaca; Newburgh; Trenton Falls; Sharon; Ulster Co; Poughkeepsie. May–early Jl.

1993 **C. laetifica** Lint. "NY" (Graef). I have seen the specimen; is it mislabeled? (Fbs).

1992 **C. speyeri** Lint. Rochester, *Angle*; Buffalo (*Wild*): Lestershire; Albany; New Windsor; **LI:** Woodhaven; Pinehaven. Jl.

1997 **C. intermedia** Speyer. General southward to Rochester, *Angle*; E. Aurora, the Catskills, and Albany. End of May–early Je; late Jl–early Sep.

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[83] The larvae in this genus are general feeders, usually on flowers.

SUBFAMILY HADENINAE

(*Mamestrinae*)

LEUCANIA Ochsenheimer

(*Heliophila* Hübner)

1972 **L. pallens luteopallens** Sm. Common throughout the State. Late May–Sep. Grass.

NELEUCANIA Smith

(*Leucania, Heliophila*)

1959 **N. albilinea** auct. I have seen but one dark specimen from the State such as those which Smith considered typical of *albilinea,* from Yorktown. Specimens with dark hind wings have been seen from: Peru; Clayton; Albany; New Windsor; **SI; LI:** Brooklyn. They are probably merely a variety of the next species. May–early Je; Jl–Aug. Grass.

1959a **N. diffusa** Wlk. WHEAT-HEAD ARMY WORM. Has been seen from: Waddington; Perry; E. Aurora; Gowanda; Ithaca; Sharon; Albany; New Windsor; Katonah; **SI; LI:** Amagansett; Orient, *Lath.* Will probably prove common wherever looked for. May–early Je; Jl–Aug. Grass.

BOROLIA Moore

(*Leucania, Heliophila*)

1955 **B. flabilis** Grt. **LI:** Glen Cove. Jl–Sep.

1957 **B. linita** Gn. (*extincta* Sm., not Gn.). "NY". May, Jl–Aug. A coastal species.

CIRPHIS Walker [84]

(*Leucania, Heliophila*)

1950 **C. unipuncta** Haw. ARMY WORM. Very common everywhere. Throughout the entire season.

1933 **C. pseudargyria** Gn. Common from the Adirondacks to Buffalo and **LI.** Je–Sep, with stragglers till Nov; two broods, the second dwarfed.

1941 **C. insueta** Gn. General, but less common than other species. May; Jl–Aug.

1934 **C. multilinea** Wlk. Peru; Fentons; Honeoye Falls; E. Aurora; Buffalo; Rock City; Ithaca; Schenectady; Karner; Albany; Cropseyville; Rhinebeck; Poughkeepsie; Katonah; **SI; LI:** Amagansett. Je–Sep.

1935 **C. commoides** Gn. Plattsburg; Newcomb; N. Creek; Essex Co; Peru; Fentons; Clayton; Rochester; Lewiston; Buffalo; E. Aurora; Otto; Castile; Ithaca; Onteora Mt.; Liberty; Debruce; Utica; Little Falls; Sharon; Schenectady; Karner; Albany; Rhinebeck; Poughkeepsie; Katonah. Je–Sep.

1936 **C. phragmatidicola** Gn. General throughout the State; easily confused with *C. multilinea.* May–early Oct.

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[84] The larvae in this genus are cutworms feeding normally on grasses, and become army worms only when abundant.

XANTHOPASTIS Hübner

(*Euthisanotia*)

1931 **X. timais regnatrix** Grt. West Farms (Angus); **SI.** A stray from the Tropics. Lily.

CERAMICA Guenée

1930 **C. picta** Harr. (*Mamestra*). ZEBRA CATERPILLAR. Common everywhere, Plattsburg to Buffalo and **LI.** The larva is much more often seen than the moth. May–Je; Aug–Sep. A general feeder on herbs.

SIDERIDIS Hübner

(*Crocigrapha* Grote)

1927 **S. normani** Grt. Plattsburg; Lancaster; Buffalo; Evans Center; Rock City; Ithaca; McLean; Karner; Dutchess Co; New Windsor; Fordham; **SI; LI:** Jamaica. End of Ap–early Je. *Caulophyllum thalictroides.*

1926 **S. rosea** Harv. Peru; Buffalo; E. Aurora; McLean (Fbs); Lancaster; Big Ind. Val.; Oneonta; Karner; **SI; LI:** Pinelawn. May–Je; Aug.

1928 **S. congermana** Morr. Karner; **SI:** Richmond; **"LI".** May–Aug.

1929 **S. rubefacta** Morr. Karner; Albany. Je–Oct. A general feeder. A cutworm?

ORTHOSIA Ochsenheimer

(*Taeniocampa* auct., *Monima* Hübner)

1917 **O. revicta** Morr. (*subterminata* Sm.). Plattsburg; Saranac L.; Ithaca; Karner; **LI:** Central Pk. Ap.

1919 **O. hibisci** Gn. (*insciens* Wlk., *Xylina laticinerea* Slingerland, in error for larvae and pupae). General; the form *hibisci* from Buffalo (Wild) and **LI.** Ap–May. A common "green fruit-worm" on apple.

1918 **O. alurina** Sm. Ithaca (two specimens). Ap.

1910 **O. rubrescens** Wlk. E. Aurora; Ithaca; New Windsor; **LI:** Central Pk. Ap–May.

1915 **O. garmani** Grt. **LI:** Brooklyn; Hempstead Plain. Ap–Je.

XYLOMIGES Guenée

1887 **X. dolosa** Grt. Plattsburg; Ithaca; Ilion. Ap–May.

1893 **X. alternans** Wlk. (*tabulata* Grt.). Fentons; Karner.

MORRISONIA Grote

1877 **M. evicta** Grt. (*sectilis* auct.). General. Var. *vomerina* Grt. is general with the type, and seen or reported from L. Placid; Saranac L.; Lancaster; E. Aurora; Ithaca; Oneonta; Karner; Albany; Nassau; **LI.** Ap–May.

1873 **M. mucens** Hbn. **LI:** Yaphank, *Eng* (Fbs). Mar–early Ap.

1878 **M. confusa** Hbn. Lancaster; Ithaca; McLean; Albany and vic.; New Windsor; Bronxville; **SI; LI:** Oyster Bay; Yaphank. Ap–early Je. Willow, etc., in a web.

1695 **P. latex** Gn. Newcomb; Keene (*Wild*); Geneva; Evans Center; Buffalo; West Falls (*Wild*); Castile; Rock City; Randolph; Ithaca; Liberty; Big Ind. Val.; Oneonta; Schenectady; Rensselaer; New Windsor; Ramapo (Ds); **SI; LI:** Wyandanch (Eng). May–Jl. A cutworm.

1700 **P. adjuncta** Bdv. Mt. Marcy; Fentons; Geneva; Buffalo; E. Aurora (*Wild*); Otto; Ithaca; Sharon; Schenectady; Onteora Mt.; Albany; Rye; **SI; LI:** Brooklyn; Jamaica; Ft. Hamilton; Flushing (Ds). Ap–Aug; two broods. Not a cutworm, usually resting above the ground. Roman wormwood (*Wild*).

[1709 *P. tacoma* Strk. Should occur in the State, as it is determined by Dod from Maine. It is probably confused with *lilacina*.]

1715 **P. legitima** Grt. STRIPED GARDEN CATERPILLAR. General in the State. Je–Aug. Not a cutworm.

1717 **P. lilacina** Harv. Peru; Newcomb; Fentons; Evans Center; Lancaster; Otto; Castile; Ithaca; Liberty; Oneonta; Poughkeepsie; Brewster. Jl–Sep.

1718 **P. goodellii** Grt. Essex Co; Newcomb; Fentons; North Creek; Lancaster; Allegany Pk.; Evans Center; McLean; Sharon; Schenectady; Katonah; **LI.** Jl–Aug. Apparently rare in the Appalachian highlands.

1720 **P. ectypa** Morr. Onteora Mt., *How*, Aug 7.

1750 **P. renigera** Steph. BRISTLY CUTWORM. General, often our commonest Polia. Late May–early Sep. A cutworm.

1755 **P. olivacea** Morr. Keene Val.; Cascade L.; Fentons; Oak Orchard Swamp; Lancaster; Onteora Mt.; Sharon; Schenectady; Albany; NYC; **LI.** Je; Aug–Sep. A cutworm.

1756 **P. laudabilis** Gn. New Russia, *Jones*; E. Aurora, Portage (Wild); Ithaca; **LI:** Jamaica. Jl–Oct. A cutworm.

1754 **P. lorea** Gn. Plattsburg; Peru; Mt. Marcy; Newcomb; Fentons; Clayton; Evans Center; Buffalo; Otto; Chautauqua (Ds); Ithaca; McLean; Catskills generally; Schenectady; Albany; Nassau; Rhinebeck; Rye; **SI; LI.** Late Je–Jl. A cutworm.

1732 **P. anguina** Grt. Rye; **SI; LI:** Central Pk.; Hempstead Plain; Massapequa. May–Jl.

1734 **P. vicina** Grt. Peru; Fentons; Evans Center; Buffalo; Ulster Co; Sharon. Jl.

ANARTA Ochsenheimer

1633a **A. myrtilli acadiensis** Beth. "NY" (Gerhard). Probably on heath.

SCOTOGRAMMA Smith

(*Mamestra*)

1615 **S. trifolii** Rott. CLOVER CUTWORM. Common all over the State. May–Je; Aug–Sep. The contrasty var. *albifusa* Wlk. is also general. A general feeder on herbs.

BARATHRA Hübner

1607 **B. curialis** Sm. Saranac L.; Albany. A cutworm.

SUBFAMILY **AGROTINAE** [86]

EUERETAGROTIS Smith

1597 **E. sigmoides** Gn. Plattsburg; Franklin Co; Evans Center; E. Aurora; Otto; Ithaca; McLean; Schenectady; Rye; **LI:** Great Neck. May; Jl–Aug. A cutworm.

1598 **E. perattenta** Grt. Peru; Mt. Marcy; Saranac Inn; Fentons; Newcomb; Evans Center; Buffalo; E. Aurora; Debruce; McLean; Little Falls; Sharon; Schenectady; **SI.** Je–Jl.

1599 **E. attenta** Grt. Peru; Franklin Co; Saranac L.; Ithaca; Karner. Jl.

CRYPTOCALA Benjamin

1596 **C. gilvipennis** Grt. (*Rhynchagrotis*). Plattsburg; Peru; Fentons; Ithaca (*Fbs*). Jl–Aug. Grass.

LAMPRA Hübner [87]

(*Rhynchagrotis* Smith)

1565 **L. rufipectus** Morr. Essex Co; Fentons; Franklin Co; Buffalo (*Wild*); Lancaster; Ithaca; **LI:** Richmond Hill (Bj); Yaphank. Jl–Aug. Grass.

1566 **L. brunneicollis** Grt. Peru; Brant L. (Bj); Evans Center; Buffalo; Ithaca; Albany; Dutchess Co (Bj); Poughkeepsie; **SI; LI:** Floral Pk.; Flushing, Richmond Hill, Yaphank (Bj). Je–Jl.

1590 **L. cupida** Grt. **LI:** Yaphank (Bj).

L. cupida var. **brunneipennis** Grt. Carmel; NYC (Bj); **SI,** *Ds* (Bj); **LI:** Flatbush (Bj). Jl.

1593 **L. minimalis** Grt. Albany; Poughkeepsie.

1585 **L. placida** Grt. Fentons (type); Franklin Co (Bj); Rye (Bird); **LI:** Jamaica; Yaphank. The specimens seen lack the median shade.

1588 **L. alternata** Grt. Saranac L.; Buffalo; Salamanca; Ithaca (Bj); Onteora Mt.; Schenectady; Karner, *Hill* (Bj); Hudson (Bj); **SI; LI:** Forest Pk. Je–Oct. Oak, hickory, etc.

MATUTA Grote [88]

(*Semiophora*)

1552 **M. elimata** Gn. Buffalo; Karner; Rye; **LI:** Yaphank. Sep.

1552c **M. janualis** Grt. Franklin Co; Ulster Co; Schenectady; Karner; Albany; **SI,** *Ds* (Fbs); **LI:** Yaphank (Eng). Now considered a good species. Late Aug–Sep.

1420 **M. opacifrons** Grt. Karner. Aug–Sep.

1553 **M. tenebrifera** Grt. Saranac L., *McKnight*; Ithaca; **LI:** Brooklyn. Ap–May.

1551 **M. youngii** Sm. Ulster Co, Aug (red phase). A cutworm, injurious in Canada.

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[86] The members of this subfamily to Porosagrotis inclusive, are cutworms; the remainder are feeders on flowers and seeds.

[87] In this very difficult genus, records verified by Mr. Benjamin are marked with (Bj). All others should be viewed with suspicion.

[88] *Mythimna oxalina* Hbn. of Europe has been reported from Sharon Sps., undoubtedly in error.

1560 **M. prasina** Fab. Keene Val.; Mt. Marcy and vic.; Fentons; Rochester; E. Aurora, Buffalo (Wild); Lancaster; Ithaca; Onteora Mt.; Oliverea; Utica; Little Falls; Trenton Falls; Schenectady; Karner; Poughkeepsie; Rye; **SI; LI:** Woodhaven; Forest Pk., *Kch.* Je–Sep. A cutworm.

ANYTUS Grote

1533 **A. privatus** Wlk. Fentons; Buffalo; E. Aurora; Lancaster; Otto; Ithaca; Big Ind. Val.; Ilion; Schenectady; Karner; **SI; LI.** Many specimens are dark, approaching Smith's *obscurus* and *teltowa.* Jl–Sep.

UFEUS Grote

1522 **U. plicatus** Grt. Plattsburg (Dyar).

1523 **U. satyricus** Grt. Big Ind. Val. (Pears).

APHARETRA Grote

1516 **A. dentata** Grt. Fentons.

APLECTOIDES Butler

(*Platagrotis* Smith)

1509 **A. pressa** Grt. Peru; Essex Co; Fentons; Ithaca; Karner; Buffalo; Utica. Jl–Aug.

1505 **A. speciosa** Hbn. L. Tear, Jl 7, 1918. Vaccinium and grasses.

1513 **A. condita** Gn. N. Elba Twp., near Indian Pass; Albany; Liberty.

ADITA Grote

1504 **A. chionanthi** S. & A. Fentons; Seneca; Ithaca. May; Aug. Chionanthus, *Triosteum perfoliatum.*

LYCOPHOTIA Hübner

(*Peridroma* Hübner)

1489 **L. occulta** L. Typically a northern species. Fentons; Buffalo; Schenectady; Big Ind. Val.; Rye; **SI; LI:** Amagansett. Je–Aug; Oct. A cutworm.

1487 **L. astricta** Morr. A northern species. Mt. Whiteface; Saranac Inn; Fentons; Big Ind. Val. Aug.

1490 **L. margaritosa** Haw. VARIEGATED CUTWORM. The type form and the var. *saucia* Hbn. are very common generally, northward to Albany and Ithaca. Aug–Nov. A cutworm.

1495 **L. infecta** Ochs. (*incivis* Gn.). Rye; **SI; LI:** Brooklyn; Newtown; Yaphank. Grass.

1502 **L. lubricans** Gn. Essex Co; Saranac L.; Adirondack Lodge; E. Aurora; Ithaca; New Windsor; **SI; LI:** Brooklyn. Late Je–Sep.

EPISILIA Hübner

(*Pachnobia* Guenée; *Choëphora* Grote and Robinson)

1474 **E. salicarum** Wlk. Saratoga; Dutchess Co. Ap–May.

1473 **E. manifesta** Morr. Rye; **SI**; **LI**: E. New York; Woodhaven; Yaphank; Babylon. May.

1478 **E. fishii** Grt. **SI**, *Shoe*; **LI**: Yaphank. Ap.

1471 **E. fungorum** G. & R. Buffalo. Sep–Ap.

ONYCHAGROTIS Hampson

1467 **O. rileyana** Morr. Lancaster; Buffalo. A cutworm.

EUCOPTOCNEMIS Grote

1464 **E. fimbriaris** Gn. (*Porosagrotis tripars* Wlk.). **SI**; **LI**: Amagansett. Sep.

AGROTIS Ochsenheimer

1415 **A. badinodis** Grt. Saranac L.; Ithaca; Rye; **SI**; **LI**: Brooklyn; Yaphank. Sep–Oct.

1419 **A. violaris** G. & R. Rye; **SI**; **LI**: Aqueduct; Woodhaven; Yaphank; Calverton. Sep–Oct.

1416 **A. geniculata** G. & R. Wilmington; Allegany Co; Ithaca; New Windsor; Fordham; **LI**: Bellmore; Amagansett; Glencove; Yaphank. Aug–Sep.

1422 **A. ypsilon** Rott. GREASY CUTWORM. Common everywhere. Je–early Jl; Aug–Nov. A cutworm.

NOCTUA Linnaeus

1430 **N. baja smithii** Snell. Generally distributed. Aug–Sep. A cutworm.

1428 **N. normaniana** Grt. Plattsburg; Keene Val.; Fentons; N. Fair Haven; Otto; Ithaca; McLean; Onteora Mt.; Trenton Falls; Schenectady; Stamford (Ds); Rye (Ds); **SI**; **LI**: Brooklyn; Newtown. Aug–Sep. A cutworm.

1425 **N. bicarnea** Gn. General, commoner northward. Late Jl–Sep. A cutworm.

1426 **N. treatii** Grt. (*tenuicola* Morr. according to B. & B.). Adirondacks (Sm); **LI**: Forest Pk. (Doll). Late Jl–Aug.

1424 **N. c-nigrum** L. SPOTTED CUTWORM. Very common everywhere; an important species. Je–Oct.

1443 **N. jucunda** Wlk. (*hospitalis* Grt.). Peru; Franklin Co; Fentons; Clayton; Evans Center; Ithaca; McLean; Catskills; Karner; Poughkeepsie. Jl. Rare.

1444 **N. phyllophora** Grt. Fentons; Ithaca; Ulster Co; Karner; Albany; Poughkeepsie; Rye; **LI**: Lynbrook. Jl–Aug.

1438 **N. rubifera** Grt. Mt. Marcy; Franklin Co; Karner. Aug.

1447 **N. oblata** Morr. Fentons. Aug. A climbing cutworm on willow.

1446 **N. fennica** Tausch. BLACK-LINED CUTWORM. Plattsburg; Fentons; Trenton Falls; Newport. Sep. A cutworm injurious in Canada.

1450 **N. juncta** Grt. Cranberry L., *Htly*.

1434 **N. plecta** L. General to Brooklyn, common northward. May–Sep. A cutworm.

1423 **N. collaris** G. & R. Jay; Fentons; Clayton; E. Aurora (*Wild*); Seneca L.; Ithaca; North Branch; Newport; Rhinebeck; **LI**: Woodhaven. Je; Aug–Sep.

1458 **N. haruspica** Grt. Peru; Essex Co; Fentons; Clayton; Kendall; Lancaster; Buffalo; Castile, *Brad*; McLean (Fbs); Trenton Falls; Schenectady; Karner; Albany; Rhinebeck. Jl–Aug.

1461 **N. clandestina** Harr. (*unicolor* Wlk.). WELL-MARKED CUTWORM. Common everywhere, Peru to Buffalo and Gardiners I, **LI**. Je–Jl; Sep–early Oct. A cutworm.

1437 **N. cynica** Sm. Albany (Sm).

FELTIA Walker [89]

1402 **F. ducens** Wlk. (*subgothica* Sling. not Haw.). DINGY CUTWORM. Very common everywhere; one of the common cutworms. Aug–Sep.

1403 **F. jaculifera** Gn. DINGY CUTWORM. With the preceding species, and even more common. The var. *herilis* Grt. also is general, but is commoner northward. The form with pale hind wings is probably *subgothica* Haw., seen from: Ithaca; **LI**: Yaphank. Jl–Sep.

1395 **F. gladiaria** Morr. CLAY-BACKED CUTWORM. Rochester, *Angle*; Buffalo; Lancaster; Ithaca; Bangall; New Windsor; Rye; **SI**; **LI**: general (Eng). Sep–early Oct.

1397 **F. venerabilis** Wlk. Fentons; Buffalo; E. Aurora; Ithaca; McLean; Newport; Oneonta; Schenectady; Bangall; Rye; **SI**; **LI**: Woodhaven (Eng). Common southward. Sep–early Oct.

1409 **F. volubilis** Harv. Peru; Clayton; Buffalo; Castile, Je, *Brad* (Fbs); E. Aurora; Rock City; Ithaca; McLean; Oneonta; Schenectady; Karner; Albany; Rye; **LI**: Woodhaven. May–Je.

1413 **F. annexa** Tr. GRANULATED CUTWORM. Franklin Co (McKnight); Ilion; Schenectady; **SI**; **LI**: Brooklyn. Common in the Austral zone. Oct.

1414 **F. malefida** Gn. SHAGREENED CUTWORM. Essex Co; Brooklyn. Probably strays from the South.

CHORIZAGROTIS Smith

1379 **C. thanatologia** Dyar. Peru, Jl 1–7, *Mix and Everett*.

EUXOA Hübner [90]

(*Paragrotis* Pratt; *Carneades* Grote)

1287 **E. perpolita** Morr. N. Fair Haven; Karner; Debruce (Ds); Big Ind. Val.; Rye; **LI**: Aqueduct. Aug–Sep.

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[89] The species in this genus are all cutworms, and most of them are abundant. The western *Rhizagrotis acclivis* Morr. was originally described from New York in error.

[90] So far as is known, all the species in this genus are cutworms.

1312 **E. fumalis** Grt. Essex Co; Rochester, *Angle*; Ithaca; Sharon; Schenectady; Albany. Originally described from NY. Late Jl–Aug.

1286 **E. punctigera** Wlk. "NY" (Hampson). In error for another black form?

1291 **E. velleripennis** Grt. Saranac L.; E. Aurora (*Wild*); Ithaca; Schenectady; New Windsor; **LI:** Coram (Eng). Late Aug–Sep.

1486 **E. scandens** Rly. WHITE CUTWORM. Plattsburg; Peru; Essex Co; North Creek; Franklin Co; Little Falls; Evans Center; Schenectady; Albany. Jl. A cutworm, sometimes climbing.

1272 **E. detersa** Wlk. (*pitychrous* Grt.). Plattsburg; Peru; Fentons; Buffalo; Schenectady; Karner; Albany; **SI;** general on **LI.** This species favors sandy country. Late Aug–Oct.

1272b **E. azif** Strk. "NY." Another Strecker name, considered by B. & McD. a variety of *detersa.*

1318 **E. bostoniensis** Grt. Rochester, *Angle*; Buffalo; Ithaca; Karner; **SI; LI:** Wyandach, *Scheveyer* (Eng). Sep–Oct.

1304 **E. messoria** Harr. DARK-SIDED CUTWORM. This and the following four species are not certainly determinable without dissection, and the records are therefore tentative. Typical *messoria* is generally common, and an important cutworm. Jl–Sep.

1336 **E. pleuritica** Grt. "NY", type.

1304 **E. friabilis** Grt. Fentons, *Hill* (Lint).

1338 **E. decolor** Morr. (*insulsa* auct., *verticalis* Grt.). Karner; Schenectady; **LI:** Brooklyn.

1341 **E. albipennis** Grt. Fentons; Karner; **LI:** Newtown.

1329 **E. tessellata** Harr. STRIPED CUTWORM. Common everywhere; usually recognizable by the yellow shoulders. Je–early Sep.

1363 **E. ochrogaster** Gn. RED-BACKED CUTWORM. Peru; Saranac L.; Fentons; Saratoga; **LI:** Mineola (NYS). This species is extremely variable and I have seen most of its forms from the State. Aug–Sep.

1356 **E. obeliscoides** Gn. New Russia; Peru; E. Aurora (*Wild*); Ithaca; Sharon; Schenectady; Albany; Coeymans; Sullivan Co; Rhinebeck; Bronxville; **LI.** Jl–Sep.

1353 **E. divergens** Wlk. Peru; Ithaca; Liberty. Jl–Aug.

1357 **E. redimicula** Morr. Generally distributed, apparently commoner northward. Jl–Aug.

POROSAGROTIS Smith

1234 **P. vetusta** Wlk. SPOTTED-LEGGED CUTWORM. Plattsburg; Peru; Franklin Co; Rochester; Schenectady; Albany; general on **LI.** Typically associated with sandy country. A cutworm. Aug–Sep.

1303 **P. mimallonis** Grt. Peru; Fentons; Karner. Aug.

EUPANYCHIS Grote

1195 **E. spinosae** Gn. Rye; **SI; LI:** Amagansett. Late Aug–Sep.

SCHINIA Hübner

1152 **S. trifascia** Hbn. Ithaca; Rhinebeck; Poughkeepsie; Rye; **SI; LI:** Amagansett. Jl–Aug.

1163 **S. nundina** Dru. Gloversville; Rhinebeck; New Windsor; Rye (*Bird*); Hastings (Joutel); **SI; LI:** Brooklyn; Pinelawn (Ds); Yaphank. Late Jl–Aug. On flowers of *Solidago canadensis* (Bird).

1180 **S. lynx** Gn. Ithaca; Karner; Poughkeepsie; Rye (Bird); Ramapo, Nyack (Ds); **SI**; **LI**: E. Quogue (Ds); Orient, *Lath*; Amagansett, May–Aug.

1192 **S. arcigera** Gn. Lancaster; Ithaca; Rhinebeck; NYC; **SI**; general on **LI**. Aug–Sep. On flowers of *Aster puniceus* (Bird).

LYGRANTHOECIA Grote and Robinson

1127 **L. thoreaui** G. & R. Rye; **SI**; **LI**: Brooklyn. Originally described from NY. Aug–Sep.

1130 **L. marginata** Haw. Rochester, *Angle*; Batavia; E. Aurora; Castile; Ithaca; Sharon; Hebron, *Wls*; Schenectady and southward. Var. *constricta* H. Edw. was taken at New Windsor; **SI** (Ds). Jl–Sep. In flower head of *Ambrosia elatior* (*Bird*).

1122 **L. brevis** Grt. Karner; Mosholu; Rye (*Bird*); NYC; **SI**; general on **LI**. Aug 28–Sep 4. In flower head of Aster (Bird).

1120 **L. obscurata** Strk. Rye, Jl 10 (Bird).

RHODOPHORA Guenée

1098 **R. florida** Gn. EVENING PRIMROSE MOTH. Common and general in flowers of Oenothera, the larvae eating the seed pods. Je–Aug.

CHLORIDEA Westwood

1091 **C. virescens** Fab. TOBACCO BUDWORM. Rye; **SI**; **LI**: Amagansett. Larvae on flowers of tobacco and geranium (CU).

HELIOTHIS Ochsenheimer [91]

1090 **H. obsoleta** Fab. (*armiger* Hbn.). CORN-EAR WORM. Vic. of Buffalo and of NYC, and general and common on **LI**; in favorable years migrating northward as far as Watertown, Lowville, Gloversville, and Glens Falls. Je–Jl. An important fruit feeder, frequently injurious to corn and tomatoes, and, in the South, to cotton.

MELANOPORPHYRIA Grote

1076 **M. immortua** Grt. Karner; Albany. Je.

HELIOPHANA Grote

1054 **H. bina** Gn. "NY" (Lint).

HELIOLONCHE Grote

1052 **H. modicella** Grt. There is a specimen of this, labeled "West Farms," in the Angus Collection, probably in error.

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[91] *H. phlogophagus* var. *luteitinctus* Grt. is credited to NY by Gerhard, doubtless in error. Larva on Grindelia.

FAMILY AGARISTIDAE

ALYPIA Hübner

1042 **A. octomaculata** Fab. EIGHT-SPOTTED FORESTER. Saranac L. (possibly an error for males of the next species). Alder Creek; Fabius; Utica; Stanley; Geneva; Rochester, *Angle*; Buffalo; E. Aurora; Castile, *Brad*; Portage; Crosby; Ithaca; McLean; Oneonta; Gloversville; Schenectady; W. Troy; Albany; N. Nassau; West Pt. (Ds); Rye; Mosholu; NYC (Wat); **SI**; **LI**: Brooklyn, very common. Je–Aug (Ap–Aug on LI). Grape.

1046 **A. langtoni** Couper. Saranac L. (McKnight); N. Elba (Wat.); Mt. Whiteface (Shoe); Buffalo (EPV, probably in error for a variety of the preceding). Jl–Aug. Epilobium.

FAMILY ARCTIIDAE [92]

HAPLOA Hübner

1031 **H. clymene** Brown (*interruptomarginata* DeB.). Buffalo; S. Wales (*Wild*); Lancaster; Ithaca; Bath; **SI**; **LI**: Richmond Hill. Jl–early Aug. Low plants.

1032 **H. colona** Hbn. (*clymene* auct.). Buffalo (Grt). A general feeder.

H. colona var. **reversa** Stretch. STRAWBERRY TIGER MOTH. Poughkeepsie (Dyar).

H. colona var. **fulvicosta** Clem. "NY" (Sm). A general feeder, rarely injurious to peach.

H. colona var. **triangularis** Sm. Plattsburg.

1033 **H. lecontei** Bdv. Plattsburg; Keene Val.; Ilion; Buffalo. Cynoglossum.

H. lecontei var. **militaris** Harr. Fentons; Oneonta; Buffalo.

H. lecontei var. **smithii** Dyar. "NY", types.

H. lecontei var. **vestalis** Pack. "NY" (Sm).

1034 **H. confusa** Lyman. Plattsburg; Keene Val.; Geneva; Lancaster; Salamanca, E. Aurora, S. Wales (Wild); Ithaca; McLean; Binghamton; Onteora Mt.; Trenton; Schoharie; Poughkeepsie. Jl–Aug.

H. confusa var. **lymani** Dyar. Plattsburg; Ithaca; Poughkeepsie. Jl.

1035 **H. contigua** Wlk. Buffalo; Schoharie; Rogers Rock, L. George, *Jones*; Ft. Montgomery, Jl (Ds).

UTETHEISA Hübner

1029 **U. ornatrix bella** L. RATTLEBOX MOTH. Ausable Chasm; Buffalo; Castile, *Brad*; Ithaca (perhaps a stray); Gloversville (*Alex*); Albany; Poughkeepsie; Crugers; general southward. Var. *nova* Gross. is known from Rockaway Beach, **LI**. Je–Nov, two broods. Crotalaria; reported also from Lespedeza and Myrica.

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[92] The species in the family Arctiidae, except in the genera Haploa, Utetheisa, Hyphantria, Ammalo, Euchaetiás, and Halysidota, are general feeders.

ARCTIA Schrank

1025 **A. caja americana** Harr. AMERICAN TIGER MOTH. Peru; Black Br. (larva); Essex Co; Allegany Pk. (Wild); Lockport (NYS); Canaseraga; Ithaca; McLean; Elmira; Catskills; Trenton Falls; Canajoharie; Gloversville (*Alex*); Sharon; Albany. Jl–Aug.

EUCHAETIAS Lyman

1015 **E. egle** Dru. MILKWEED TUSSOCK MOTH. Castile, Je, *Brad* (Fbs); Clayton; Kissena L.; Rochester, *Angle*; Buffalo; Otto; Castile, *Brad*; Ithaca; Newport; Oneonta; Little Falls; Coeymans; Albany; Poughkeepsie; Rye; Katonah; Kinderhook; Van Cort. Pk. (Eng); **SI** (Ds); **LI**: Lynbrook. Late Je–Aug. Milkweed.

1018 **E. oregonensis** Stretch. Peru; Severance; Ithaca (one specimen, slightly doubtful); Saratoga; Karner; Albany. May–Jl.

APANTESIS Walker

971 **A. virgo** L. Everywhere. Representative records are: Peru; Essex Co; Fentons; Clayton; Buffalo; E. Aurora; Allegany Pk.; McLean (Fbs); Ithaca; Sullivan Co; Ulster Co; Sharon; Oneonta; Gloversville; Johnstown; Albany; Rhinebeck; Poughkeepsie; Rye; **SI.** Jl–Aug.

982 **A. virguncula** Kby. Plattsburg; Peru; Saranac L.; Clayton; Old Forge; Aurora; Geneva; Brockport; Lancaster; Buffalo; De Bruce; Utica; Big Ind. Val.; Sharon Sps.; Pittstown (NYS); Poughkeepsie; Rye; **LI**: Newtown (Doll). Var. *otiosa* N. & D. occurs at Plattsburg. Jl.

973.1 **A. circa** Stk. (*intermedia* auct.). Allegany Co; Ithaca; Poughkeepsie. Sep.

973 **A. parthenice** Kby. Plattsburg; Peru; New Russia; Wilmington; Mt. Marcy; Fentons; Waddington; Buffalo; E. Aurora; Ithaca; McLean; Binghamton; Big Ind. Val.; Onteora Mt.; Schenectady. Aug–Sep. Larva partly carnivorous, eating other Lepidoptera.

974 **A. oithona** Strk. var. **rectilinea** Fr. **LI**: E. New York; Woodhaven.

979 **A. anna** Grt. Northern NY; Ithaca (male); Albany; New Windsor; **LI.** Typical specimens of var. *persephone* Grt. have been seen from: Ithaca; Utica; Ulster Co; Newburgh. Late Je–Jl; Sep.

977 **A. arge** Dru. Plattsburg; Essex Co; Rochester; Brockport; Buffalo; Ithaca; Binghamton; Oneonta; Albany; New Windsor; Poughkeepsie; Rye; general southward. Var. *nervosa* N. & D. occurs in the spring brood at Ithaca and on **LI.** Ap–Je; Aug–Sep.

989 **A. phyllira** Dru. Mt. Kisco; Rye; **LI**: Wyandanch, *Sf.* Var. *excelsa* Neum. was taken at **LI**: Rockaway Beach. May–Je.

991 **A. celia** Saund. Plattsburg; West Pt., Je (Ds).

990 **A. figurata** Dru. Lancaster; **LI**: Brentwood.

A. figurata form **snowi** Grt. **LI**: Bellport, *Nic.*

995 **A. nais** Dru. Ithaca; McLean; Albany; Rhinebeck; Poughkeepsie; Huguenot; Rye; Katonah; **SI.** Reported from Buffalo and Newburgh, but there is a little danger of confusion with forms of *vittata.* The species is not well understood. May–Aug.

996 **A. vittata** Fab. (*phalerata* Harr.). HARNESSED MOTH. Seen from N. Fair Haven; Rochester; Buffalo; E. Aurora; Potter Swamp; Poughkeepsie; Newburgh; Katonah; **SI.** Je–Sep.

ECPANTHERIA Hübner

964 **E. deflorata** Fab. (*scribonia* Stoll). GREAT LEOPARD MOTH. Buffalo; Lancaster; Oneonta; Rhinebeck; Poughkeepsie. Common about NYC.

ESTIGMENE Hübner

960 **E. acraea** Dru. SALT-MARSH CATERPILLAR. Common everywhere. Je–Jl; Aug. Two broods.

E. acraea var. **dubia** Wlk. Ithaca, Jl 1, 1915.

962 **E. prima** Sloss. Plattsburg; Chateaugay L.; **LI**: Pine Haven. May.

963 **E. congrua** Wlk. (*antigone* Strk.). Keene Val.; Brockport; Rock City; Ithaca; McLean; Catskills; Schenectady; Albany; Rhinebeck; Poughkeepsie; New Windsor; **SI**; **LI**: Bellport. Je–early Jl.

HYPHANTRIA Harris: THE FALL WEBWORMS

959 **H. cunea** Dru. Verified records are: Peru (one white specimen); Buffalo; E. Aurora, *Wild*; Ithaca; Utica; Albany; Florida; Yorktown; Rhinebeck; **SI**; **LI**: Brooklyn; Oyster Bay. More southern in dominance than *textor*, which may be a race of it. Var. *pallida* Pck. was described from "NY". Ap–May; Jl. Two broods. General on trees, sometimes injurious to apple.

958 **H. textor** Harr. Seen from Bronxville; **SI**; **LI**: Greenport. Reported also from: Fentons; Buffalo; Angola; Albany; **LI**: Brooklyn; Orient; but part of these latter records may be based on white specimens of *H. cunea*. Larva like the preceding. Je–Jl. Normally one brood.

ISIA Walker

957 **I. isabella** S. & A. BLACK-TIPPED BEAR. Common wherever collections have been made. Je–Aug.

DIACRISIA Hübner

954 **D. virginica** Fab. YELLOW BEAR. Very common everywhere. May–Sep.

953 **D. latipennis** Stretch. Brockport; Buffalo; Potter Swamp; Ithaca; McLean; Newport; Karner; Albany; Big Ind. Val.; New Windsor; Poughkeepsie; Ft. Montgomery, Nyack (Ds); **SI**; **LI**: Flushing; Gardiners I. May–early Jl.

PHRAGMATOBIA Stephens

948 **P. fuliginosa** L. Common everywhere. May–Aug.

949 **P. assimilans** Wlk. Plattsburg; Hudson; Ithaca (one specimen of var. *franconica*); Big Ind. Val. May. The type (Doubleday Coll.) was presumably from Trenton Falls.

HYPHORAIA Hübner

943 **H. hyperborea** Curt. Catskills (Pears).

942 **H. parthenos** Harr. Saranac; Mt. Marcy; Mt. Whiteface; Schoharie; Catskills. Je.

EUBAPHE Hübner

931 **E. laeta treatii** Grt. Ithaca; **LI:** Yaphank. Jl.

937 **E. opella** Grt. E. Aurora; Ithaca; Poughkeepsie; **LI:** Bellport; Brookhaven; Yaphank. Je–Aug.

E. opella var. **nigricans** Reak. West Pt., not uncommon (Ds); **LI:** Wading R. (Ds).

934 **E. aurantiaca** Hbn. I am quite unable to sort out the various so-called forms of *aurantiaca* and *immaculata* Reak., which together cover the State. Specimens from Ithaca and the Adirondacks generally approach *immaculata,* while those from near NYC are more typical of *aurantiaca.* I have seen var. *quinaria* Grt. from Newcomb, Adirondack Lodge, and Big Ind. Val., and it is general, but relatively rare. Form *trimaculosa* Reak. is reported from Ft. Montgomery (Wat). Je–Aug.

HALYSIDOTA Hübner

921 **H. tessellaris** S. & A. BANDED TUSSOCK MOTH. Many of the following records are based on the imago, and may belong to the next species: Peru; Essex Co; Adirondack Lodge; Fentons; Saranac L.; North Cr.; Clayton; Rochester; Honeoye Falls; Buffalo; E. Aurora; Allegany Pk.; Castile; Ithaca; McLean; Newport; Oneonta; Oliverea; Utica; Little Falls; Schenectady; Albany; Rhinebeck; Poughkeepsie; Rye; Florida. Late Je–Aug. Maple and many other trees.

922 **H. harrisii** Walsh. The following records have been verified by the larvae: Ithaca (CU); Ulster Co and Poughkeepsie (Dyar). Sycamore only.

918 **H. maculata** Harr. SPOTTED TUSSOCK MOTH. Plattsburg; Peru; Wilmington (larvae); Fentons; Elizabethtown; Rochester; Castile; E. Aurora; Batavia; Buffalo; Lancaster; Ithaca; Big Ind. Val.; Oneonta; Gloversville; Little Falls; Albany; Rye; commoner southward. Je–Jl. Apple and other trees.

915 **H. caryae** Harr. HICKORY TUSSOCK MOTH. Common throughout the State. Je–Jl. General on trees and shrubs.

AMMALO Walker

(*Tanada* Walker)

905 **A. tenera** Hbn. (*collaris* Fitch). Clayton; Buffalo; Rochester; Irving (*Wild*); Ithaca; Oneonta; Karner; Poughkeepsie; Katonah; Rye; Bronxville; Astoria; Van Cort. Pk. (Wat); **SI: LI:** Brooklyn. Je–early Aug. Apocynum.

907 **A. inopinatus** H. Edw. (*eglenensis* auct.). Big Ind. Val.; **SI; LI,** to Yaphank. The type occurs near NYC; the other records are based on the gray form that passes for *eglenensis.* Jl–Aug. Milkweed.

FAMILY LITHOSIIDAE

HYPOPREPIA Hübner

899 **H. miniata** Kby. General. Jl–Aug.

900 **H. fucosa** Hbn. General with the preceding species, and commoner as a whole. Jl–Aug. Lichens.

CLEMENSIA Packard

892 **C. albata** Pack. N. Elba; Saranac L.; S. Wales (Wild); Buffalo; Otto; E. Aurora (*Wild*); Ithaca; Big Ind. Val.; Onteora Mt.; Rhinebeck. Je–Jl.

OZODANIA Dyar [93]

881 **O. tenuifascia** Harv.? (*unifascia* Hamp.). "NY" (Hampson).

884 **O. injecta** Dyar. Ithaca, Jl 14, 1892 (CU).

CRAMBIDIA Packard

856 **C. pallida** Pck. Plattsburg; Ithaca; McLean; Poughkeepsie. Late Jl–early Sep.

860 **C. casta** Sanb. Ausable Chasm; Wilmington; Saranac L.; Fentons; **LI:** Yaphank. Aug–Sep.

LEXIS Wallengren

855 **L. bicolor** Grt. Plattsburg; Ithaca. Aug.

FAMILY NOLIDAE

ROESELIA Hübner

851 **R. minuscula** Zell. Keene (Wild); Buffalo (*Wild*); Ithaca; **SI; LI:** Long Island City; Lynbrook; Bellport; Cold Sp., *Kch* (Fbs). Our records seem to belong to var. *phylla* Dyar. May–Jl.

NIGETIA Walker

850 **N. formosalis** Wlk. Lancaster; Buffalo; Rhinebeck. Flies in Virginia in Je.

NOLA Leach

847 **N. clethrae** Dyar. Castile, Je, *Brad* (Fbs); **LI:** Bellport (type), Brookhaven, South Haven, Quogue (Dyar). Clethra.

846 **N. ovilla** Grt. Plattsburg; **SI; LI:** Aqueduct (Ds). I am not sure what this species is (Fbs). Je. Oak.

CELAMA Walker

844 **C. triquetrana** Fitch. E. Aurora; West Falls; Portage; Ithaca; Dutchess Co; Pearl R.; Bronx; **SI; LI:** Wading R.; Yaphank. Late Ap–Je. Witch-hazel.

841 **C. pustulata** Wlk. Rhinebeck; Poughkeepsie.

842 **C. cilicoides** Grt. Ithaca, Jl; McLean (Fbs).

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[93] The larvae of this genus feed on lichens.

FAMILY EUCHROMIIDAE

(*Syntomidae, Zygaenidae*)

CTENUCHA Kirby

838 **C. virginica** Charp. General, southward to Hunter, Big Ind. Val., Greene Co, and Ft. Montgomery. It should occur in the rest of the State, but I have not seen it. Late May–early Jl. Grass.

LYCOMORPHA Harris

831 **L. pholus** Dr. Wilmington; Fentons; Clayton; Clifton Sps.; Niagara Falls; Buffalo; Allegany Pk.; Hemlock L.; Ithaca; Hope; Big Ind. Val.; L. George; Schoharie; Gloversville (*Alex*); Pine I.; **SI; LI:** Woodhaven. Jl–Aug. Lichens.

SCEPSIS Walker

824 **S. fulvicollis** Hbn. Peru; Fentons; Newport; Rochester; Honeoye Falls; Batavia; Lancaster; Protection; Ithaca; McLean; Schoharie; Albany; and southward. Je–early Sep. Grass.

SUBORDER RHOPALOCERA

FAMILY HESPERIIDAE

SUBFAMILY HESPERIINAE

EUDAMUS Swainson

458 **E. proteus** L. BEAN LEAF ROLLER. Central Pk. in NYC (Eng); **LI:** Brooklyn. Rarely breeding. Aug; late Sep – early spring. Legumes, rarely Cruciferae; in the South injurious to beans.

EPARGYREUS Hübner

468 **E. tityrus** Fab. SILVER-SPOTTED SKIPPER. Everywhere, northward to Clayton and Keene Val. at least; **LI:** generally distributed and very common; Oakdale, Je 12; Hempstead, Jl 3; Flushing, May 8, Aug 2, Sep 16; Coram, Sep 4; (all Bell). Je–Jl. Locust and other Leguminosae.

RHABDOIDES Scudder

473 **R. cellus** Bdv.-Lec. **LI:** Brooklyn, presumably a stray. *Breweria aquatica.*

ACHALARUS Scudder

472 **A. lycidas** S. & A. Syracuse; Rochester (Angle); Portage; Karner; Greenwood L.; Riverdale (NYS); **SI,** uncommon forty years ago, but has gradually increased in numbers (Ds); **LI:** Flushing, Je 26 (G.L.Standfast); Jamaica, Je 18, '25 (Bell). May–Jl. *Meibomia paniculata* (preferred) and Lespedeza (Wat).

THORYBES Scudder

485 **T. daunus** Cr. (*bathyllus* S. & A.). Katonah; Bronxville; **SI; LI,** well distributed and common: Coram, May 22, Jamaica, Je 4, Oakdale, Jl 4 (Bell). Reported also from Keene Val., *Not,* Deposit and Binghamton (*Blackburn*), Oneonta, and Schoharie, but I have not seen the specimens, which may be heavily marked specimens of *pylades.* Je–early Jl. *Lespedeza capitata* (preferred) and other legumes (Wat).

COCCEIUS Godman and Salvin

483 **C. pylades** Scud. Common everywhere. **LI:** Wyandanch, May 28, Jamaica, Je 4, Oakdale, Je 18 (Bell). Je; a partial brood in Aug. Clover and other legumes.

PHOLISORA Scudder

512 **P. catullus** Fab. Rochester, fairly common (Angle); Honeoye Falls; Buffalo; Crosby; Ithaca; Binghamton (Blackburn); Ulster Co; Ft. Edward; Karner; Albany; Bethlehem; Tappan; NYC; **SI; LI,** usually common: Flushing, May 26, Je 16, Aug 3, Jamaica, Jl 16, Hempstead, Sep 5 (Bell); Lynbrook. Mid May – mid Je; Aug. *Chenopodium album* and Amaranthus (Wat).

THANAOS Boisduval

518 **T. brizo** Bdv.-Lec. Jamestown (EPV); Karner; Sloatsburg, *Not*; Bronxville; **SI; LI,** common locally: Central Pk., Ap 29, May 28, Coram, May 15 (Bell); Yaphank. May–Je. Oak.

517 **T. icelus** Lint. Black Br.; Keene Val., *Not;* Clayton; Gowanda; Rock City; Egleston's Glen; Crosby; Taughannock Falls; Ithaca; Karner; Schoharie; Gloversville (Alex); Windsor, *Not*; Rhinebeck; Bronxville; **SI; LI,** generally distributed and locally common: Massaquogue; Smithtown; Flushing, May 8; Central Pk.; Coram; Oakdale (all Bell). Je. Willow and poplar (Wat).

520 **T. lucilius** Lint. Axton; Keene Val (NYS); Rochester, Conesus L. (Angle); Buffalo (EPV); Crosby; Ithaca; Hunter; Schoharie; Karner; Bethlehem; Ramapo Mts.; Croton-on-Hudson (Ds); **LI:** Jamaica, May 28; Central Pk., May 29 (Bell); Coram, Je 15 (Eng); Flatbush. May; mid Jl – mid Aug; occasional in Sep. Columbine.

521 **T. persius** Scud. Gloversville (*Alex*); Portage (EPV); E. Aurora, *Wild*; Rensselaer (Lint); Karner; **SI:** Watchogue; **LI,** locally common: Coram, May 13, Sep 2, Jamaica, Je 4, Flushing, Jl 27 (Bell); Hempstead Plain, Aug 8 (Eng); Amagansett. I am not sure that any of these records belong to the true *T. persius* Scud. (1892), but they would be included in Scudder's later conception of the species (Fbs). May–Sep. *Baptisia tinctoria* (Wat); reported also from poplar and willow.

524 **T. martialis** Scud. Clayton; Rochester; E. Aurora, *Dnd, Wild*; Buffalo, Niagara Falls (Wild); Egleston's Glen; Ithaca; Raven Pass; Kaaterskill; Karner; Albany; Glen (Meske); Bethlehem, West Pt., Croton-on-Hudson, Ramapo, and **SI** (Ds); **LI:** Flatbush. Late May–Je; late Jl–Aug. Red-root. Reported also from wild indigo.

T. martialis ab. **ausonius** Lint. Karner (type).

525 **T. juvenalis** Fab. Clayton; Rochester, Conesus L. (Angle); Buffalo; Portage; Rock City; Crosby; Ithaca; McLean; Schoharie; Karner; Rensselaer; Sloatsburg, *Not*; Mosholu; Bronxville; **SI**; **LI**, generally distributed and very common in the pine barrens: Central Pk., May 3, Oakdale, Je 17, Flushing, May 8 (Bell); Oyster Bay; Smithtown; Yaphank. May–early Je in central NY, and May–Oct, with two broods, on SI. Oak, less commonly legumes (Wat).

527 **T. horatius** Scud. & Burg. Ramapo Mts.; Bronxville; **SI**; **LI**, generally distributed: Central Pk., Ap 19, May 3, Flushing, Jl 12, Aug 15, Sep 29, Kings Pk., Jl 26 (Bell); Amagansett; Wading R. May–Oct, two broods. Pin and other oaks, less commonly legumes.

HESPERIA Fabricius

495 **H. tessellata** Scud. (*Pyrgus montivaga* auct.). Pittsford, *Boughton*; Rochester (*Angle*); E. Aurora, *Dnd, Wild*; Hamburg, first record 1910 (Wild); Castile, *Brad*; Ithaca (abundant); **SI**; **LI**, a southern visitant, at times locally common, Jl–Aug: Maspeth, Aug, 1898; Flatbush. Not known to hibernate on LI (Eng). Jl–Sep, rarely Ap. *Sida spinosa* (Wat).

488 **H. centaureae** Ramb. E. Aurora, *Dnd* (Angle); Ramapo Mts; **LI** (Calverly teste Edwards).

SUBFAMILY PAMPHILINAE

CARTEROCEPHALUS Lederer

(*Pamphila*)

536 **C. palaemon mandan** Edw. Black Br.; Camp No. 3, Paul Smiths, *Babiy*; Lewis Co, *Hill*; not uncommon in the N. Elba region (div.); McLean. May–Aug. Females observed ovipositing on grass (Wat & Coleman).

ANCYLOXIPHA Felder

544 **A. numitor** Fab. Common mostly in wet places. Definite records are: Honeoye; E. Aurora; Geneva; Lancaster; Castile; Ithaca; Karner; Onteora Mt.; Bethlehem; Castleton; Coeymans; Rhinebeck; Poughkeepsie; Pine I.; **SI**; **LI**, generally distributed and very common in grassy fields: Flushing, May 28, Aug 2, Sep 10, Oct 1, Central Pk., Je 5, Farmingdale, Jl 3, Oakdale, Jl 4 (Bell); Lynbrook; Gardiners I. (Ds). The absence of northern records may be accidental. Je–Sep, three broods. Grasses.

PAMPHILA Fabricius

(*Erynnis* etc.)

556 **P. metea** Scud. Karner, *Hill* (Fbs); Croton-on-Hudson (Ds); **SI** (Ds, Wainwright); **LI**, not common; Coram, May 13, Wyandanch, May 14 (Bell); Massapequa, May 23, Wading R., May 29 (Ds); Yaphank. May–Je. Grass.

[565a *P. attalus seminole* Scud. is not rare from Mass. to Fla., and therefore it must certainly occur in the State. Jl.]

566 **P. leonardus** Harr. Plattsburg; Keene Val., *Not*; Fentons; Alexandria Bay; Clayton; Catskills; Gloversville (*Alex*); Windsor, *Not*; Karner; **SI; LI,** in the pine barrens, locally common: Coram, Sep 1 (Bell), Sep 18 (Eng); Yaphank, Amagansett, Sep (Ds). Late Aug–Sep. Grass.

570 **P. sassacus** Harr. Mt. Whiteface (Ds); Peru; Axton (NYS); Rochester (Angle); Niagara Falls (Wild); Buffalo (EPV); Chipmunk Swamp, Vandalia; Rock City; Castile; Portage; McLean; Karner; Bethlehem (Lint); Oliverea (Ds); W. Hebron (Lg); Ft. Montgomery (Ds); Rhinebeck; Ramapo (Ds); **SI; LI,** local, common in the pine barrens: Coram, May 22, Jamaica, Je 5, Central Pk., May 29, Je 5 (Bell); Yaphank. Je–Jl in northern NY; May–Je in southern NY. Grass.

HYLEPHILA Billberg

571 **H. phylaeus** Dru. Katonah; NYC, var. locs. (div.); **SI; LI:** Brooklyn, Jl–Aug (div.); Canarsie, in the fall (Doll); Flushing, Jl 26, Aug 29, Sep 2 (Bell). Grass.

POLITES Scudder

576 **P. cernes** Bdv.-Lec. (*Limochores taumas*). Common wherever looked for. **LI,** well distributed and very common: Sands Pt., May 21, Central Pk., Je 5, Flushing, Jl 23, Aug 16, Oakdale, Je 12 (Bell); Gardiners I. (Ds). Je–Sep, two broods. Grass (Panicum, etc.).

577 **P. manataaqua** Scud. Rochester (Angle); Gowanda (Wild); Oliverea, E. Jewett (Ds); Albany, Karner, Bethlehem (Lint); Oneonta (Cleveland); Katonah; Van Cort. Pk.; **SI; LI,** locally distributed and usually not very common: Oakdale, Jl 1, Hempstead, Jl 3, Kings Pk., Jl 27, Coram, Sep 5 (Bell); Wading R. Jl–Aug. Grass.

581 **P. mystic** Scud. Mt. Whiteface (Ds); Axton; Fentons; Potsdam; Rochester (Angle); E. Aurora (Wild); Lancaster; Rock City; Castile, *Brad*; Portage; Ithaca; Rensselaer; Liberty; Oliverea, E. Jewett (Ds); Karner; Bethlehem; Ramapo Mts.; **SI; LI,** sometimes common locally: Oakdale, Je 12, Jl 1 (Bell); Mt. Sinai Harb., Sep 3 (Eng); Gardiners I., Je, 1911 (Ds). Je and mid Jl–Aug. Grass.

583 **P. peckius** Kby. Common wherever looked for. **LI,** usually very common: Sands Pt., May 21, Central Pk., Je 5, Flushing, Jl 23, Aug 2, Sep 16 (Bell); Gardiners I. (Ds). Je–Aug. Grass.

587 **P. brettus** Bdv. **LI,** a stray (BM).

ATALOPEDES Scudder

589 **A. campestris** Bdv. Ithaca; Van Cort. Pk., *Blackburn*. Strays. Jl–Aug. Cynodon.

CATIA Godman and Salvin

590 **C. otho egeremet** Scud. Common southward. Keene Val., *Wild*; Clayton; Rochester, *Angle*; E. Aurora, *Dnd*, *Wild*; Ithaca, rare; Sharon Sps.; Karner; Bethlehem; **SI; LI,** usually common: Jamaica, Je 18, Flushing, Jl 9, Oakdale, Jl 10 (Bell); Wading R.; Gardiners I. (Ds). Aug. Panicum.

POANES Scudder

591 **P. massasoit** Scud. Karner; Bethlehem (Lint); Orange Co; Tappan, Jl–Aug, common (Wat and Friedle); Van Cort. and Bronx Pks. (Wat and W.P.Comstock); **SI**, Jl–Aug (Ds); **LI**, local and not common, usually found in swampy locations: Flushing, Jl 9, 1923 (Bell); Wyandanch, Aug 3 (Ds); Riverhead, Aug (Ds). Grass.

592 **P. hobomok** Harr. Everywhere. **LI**, generally distributed and very common: Sands Pt., May 21, Jamaica, Je 4, Coram, May 22, Oakdale, Je 19 (Bell); Lynbrook, Je. Grass.

P. hobomok ab. **pallida** Wat. Dunwoodie, May 21 (type).

P. hobomok form **pocahontas** Scud. Plattsburg; Clayton; Buffalo (Wild); Castile, *Brad*; Windsor, *Not*; Ithaca; Freeeville; Greene Co; **SI**; **LI**: Central Pk., May 29, Je 5, Oakdale, Je 12, Jamaica, Je 18 (all Bell).

P. hobomok form **pocahontas** ab. **friedlei** Wat. Van Cort. Pk., Sep 10 (type).

593 **P. zabulon** Bdv.-Lec. Washington Hgts., NYC (Wat and Friedle); **SI**; **LI**: Flushing, Aug 19, 26, 1916 (Bell). Practically all the published records for *zabulon* belong to *hobomok*. May–Oct. Grass.

ATRYTONE Scudder

597 **A. logan** Edw. (*delaware* Edw.). Bethlehem, Karner (Lint); northern Westchester Co (W.C.Wood); Croton-on-Hudson, Ramapo (Ds). Jl–early Aug. *Erianthus alopecuroides.*

PARATRYTONE Godman and Salvin

602 **P. aaroni** Skin. Reported from Brooklyn, probably in error. Je; Aug. Grass in salt marshes.

PHYCANASSA Scudder

600 **P. viator** Edw. Mt. Marcy; Batavia; western NY, fairly common (Angle); **SI**; **LI**, locally distributed; often very common where it occurs: Flushing, Jl 16 and 30, Aug 7 (Bell); Jamaica, Aug 11 (Eng); Aqueduct. Jl. Grass, most often in salt marshes.

EUPHYES Scudder

604 **E. vestris metacomet** Harr. Newcomb; North Cr.; Fentons; Rochester (Angle); E. Aurora, Allegany Pk. (Wild); Newport; Clayton; Ithaca; McLean (Fbs); Schoharie; E. Jewett (Ds); Shelving Rock, L. George; Bethlehem; Beaver Kill; Ft. Montgomery, Croton-on-Hudson (Ds); **SI**; **LI**, generally distributed and common: Jamaica, Je 25, Oakdale, Jl 4, Flushing, Jl 23 (Bell); Coram, Aug 4 (Eng); Wading R. Jl–Aug. Grass.

605 **E. bimacula** G. & R. Michigan Swamp, Ithaca, Je 22 (*Fbs*); Karner; Cedar Hill. Reported also from: Bethlehem, Sharon Sps., *Lint*; Waterville, *Not*; Lancaster; Colden. Je–Jl. Grass.

609 **E. dion** Edw. Batavia. Jl; Sep. Grass.

610 **E. conspicua** Edw. (*pontiac* Edw.). Buffalo; western NY, fairly common (Angle); Gloversville (*Alex*); Buffalo; Bronxville; **SI; LI,** common in swampy locations: Flushing, Jl 2 and 23; Jamaica, Jl 16 (Bell); Flatbush; Aqueduct. Jl. Grass.

ATRYTONOPSIS Godman and Salvin

613 **A. verna** Edw. Ithaca ? (female only); Sharon Sps.; Karner; Bethlehem; Katonah; Bronxville; Ramapo; Croton-on-Hudson; **SI; LI,** well distributed and fairly common: Jamaica, Je 18, Oakdale, Je 19, Kings Pk., Jl 30 (Bell). Je–Aug. Grass.

615 **A. hianna** Scud. Karner (Fbs); Bethlehem (*Lint*); **LI,** apparently very scarce: Central Pk., May 29, 1921, Oakdale, Je 22 (Bell). End of May–Je. Grass.

AMBLYSCIRTES Scudder

626 **A. vialis** Edw. Axton; Keene (Wild) and Keene Val., *Not*; Saranac L., *Not*; Bethlehem (Lint); Karner; Rhinebeck; Yonkers; **LI,** local in distribution and not very common: Coram, May 13, Je 10 (Bell); Wading R., May 31 (Ds). Je–Aug. Grasses (Avena, Poa).

635 **A. hegon** Scud. (*samoset* Scud.). Axton, Keene Val. (NYS); Windsor, *Not*; McLean; Poughkeepsie; Sloatsburg (div.). Late May–Jl. Sorghum (Abbot).

MEGISTIAS Godman and Salvin

641 **M. fusca** G. & R. (*Stomyles, Oligoria*). Van Cort. Pk. (Wat); **SI,** Je, rare (Ds); **LI,** apparently scarce: Rockaway Beach, Je 27 (Shoe). Je; Aug–Sep. Grass.

LEREMA Scudder

642 **L. accius** S. & A. **LI:** New Lots, 1863 (Grote).

LERODEA Scudder

(*Oligoria* Scudder)

646 **L. maculata** Edw. Karner. Jl.

CALPODES Hübner

647 **C. ethlius** Cr. CANNA SKIPPER. Albany, 1893 (Bt); West Farms (according to Holland's *Butterfly Book*); **LI,** not indigenous, its occurrence in NY probably accidental; Bell states: "The first specimen was taken by Engelhardt at Yaphank, May 30, 1911, and the species was afterwards taken by a number of other collectors at various places, but did not survive the winter. Brooklyn, Sep 30, 1911; Middle Village, Oct 1911"; Maspeth; Floral Pk.; Glendale; Yaphank. Canna.

PRENES Scudder

653 **P. ocola** Edw. **SI:** Annadale, Sep, 1896, *Capt. R. D. Wainwright* (Ds).

FAMILY PAPILIONIDAE

LAËRTIAS Hübner

1 **L. philenor** L. GREEN SWALLOW-TAIL. E. Aurora, Allegany Pk., strays (Wild); Ithaca, a stray; Tappan; Tarrytown (NYS); **SI; LI**, local, but often common: Brooklyn; Flushing, Sep 16 (Bell), Jl and Sep, two broods (Eng). A short-tailed var. similar to *acauda,* which is Mexican, occurs at Brooklyn; ab. *wasmuthi* Wks. was described from Flatbush, **LI.** Aristolochia.

PAPILIO Linnaeus

4b **P. polyxenes asterius** Cr. BLACK SWALLOW-TAIL. Common and general except perhaps in the higher Adirondacks: Newport (NYS); Keene Val. and Franklin Co, *Not*; Rochester; Buffalo; Crosby; Ithaca; Schoharie; Lestershire; Albany; **SI; LI**, generally distributed and usually common: Central Pk., May 5, Jamaica, Je 12, Flushing, Jl 9, Aug 2, Hempstead, Sep 5 (Bell). The aberration *calverleyi* Grt. was described from Queens Co. Je–Sep, two broods. Umbelliferae (once found on cosmos by Fbs).

11 **P. cresphontes** Cr. GIANT SWALLOW-TAIL. Rochester (Angle); Albion; Batavia; Lancaster (EPV); La Salle (Wild); Buffalo; Ithaca; Cortland, *Wickwire*; Schoharie (NYS); Altamont; Selkirk; New Baltimore; Albany; Athens; Rhinebeck; New Paltz (NYS); Poughkeepsie; Bear Mt., Arden, *F. M. Brown* (Wat); NYC—Bronx Pk., Van Cort. Pk., and Washington Hgts. (Wat and Comstock); **SI; LI:** Flushing, Aug 17 (W.J.Hamilton,Jr.); Brooklyn; Glencove; Yaphank, Aug, 1882 (Wks). Je; Aug–Sep. Prickly ash, Ptelea, and other woody Rutaceae.

13 **P. glaucus** L. The typical form is reported from: Buffalo; Nyack; **SI**, earliest date, Ap 22, 1919 (Ds); **LI:** Dyker Hgts., Brooklyn, May 9, 1919 (Pasch); Flushing, Aug 13 (Bell); Yaphank, May 29, 1911 (Ds).

P. glaucus var. **turnus** L. TIGER SWALLOW-TAIL. Everywhere in the State. **LI**, general and common: Flushing, Ap 28, Aug 2, Coram, May 13, Jamaica, Je 4, Hempstead, Jl 3, Smithtown, Sep 10 (Bell). May–Je; mid Jl–Aug. Wild cherry, lilac, and many other trees and shrubs.

18 **P. troilus** L. BLUE SWALLOW-TAIL. General except in the Adirondacks. Keene Val., *Not*; Gloversville (*Alex*); Utica (NYS); Rochester (Angle); E. Aurora (Wild); Rock City; Potter Swamp; Ithaca; McLean; Dutchess Co; Greenwood L.; Ramapo Mts.; **SI; LI**, generally distributed and usually common: Flushing, Oakdale, Coram (Bell); Wading R. (NYS). May–Sep, two broods. Sassafras and spicebush.

19 **P. palamedes** Dru. **SI:** Ft. Wadsworth, Je 18, 1914, *Bs* (Ds); **LI:** Brooklyn, taken many years ago by Benjamin Meyer (Doll).

IPHICLIDES Hübner

20 **I. marcellus** Cr. (*ajax* auct.). ZEBRA SWALLOW-TAIL. Mt. Marcy, one specimen on summit and another at N. Elba, Jl, both var. *lecontei* R. & J. (Wat and Coleman); Rochester (Angle); Brockport, all forms (Angle); Lockport (Wild); Buffalo, all forms (EPV); E. Aurora, very rare (Wild); Cortland, *Wickwire*; Sloatsburg, *Cook*; **SI** (Ds and Fulda); **LI:** Flushing, Jl 2, 1920 (W.J.Hamilton,Jr.); Eastern Parkway, Brooklyn, 1867 and 1911 (Doll); Brighton Beach, Jl, 1912 (Eng); Rockaway. Papaw.

FAMILY PIERIDAE

APPIAS Hübner

28 **A. ilaire** Gdt. (*Tachyris margarita* Hbn.). Lancaster, 1880 (*EPV*); two specimens seen and one captured Je 10, 1906, at Canarsie, **LI**, by Otto Mayer, in a field containing an occasional patch of scrub and partly hemmed in by truck gardens. The one captured was on blackberry blossoms (Bul. Brooklyn Ent. Soc., vol. 8, p. 45, 1913). Cruciferae.

PIERIS Schranck

(*Pontia*)

34 **P. protodice** Bdv.-Lec. CHECKERED WHITE. Pittsford, *Boughton*; Brockport; Buffalo and vic. (EPV); E. Aurora (*Wild*); Ithaca; Schoharie; Karner (Cook and Wat); Bronx and Van Cort. Pks. (Wat); **SI**, but not in recent years (Ds); **LI**: City Line, Brooklyn, and common along the Aqueduct, Sep 12, 1910 (Ds); S. Jamaica, Jl 28, 1912 (Ds); Long Pond, Wading R., Aug 8, 1912 (Ds); East NY, Jl–Oct (Shoe); Glen Cove. Two broods. Cruciferae, especially *Lepidium virginicum* (Wat). The spring form *vernalis* Edw. has not been separately recorded.

35f **P. oleracea** Harr. MUSTARD WHITE. Double-brooded. Formerly common and widespread, now replaced by *rapae* except in out-of-the-way places and open woods. Recent records are: Axton, 1901; Speculator, 1901; Keene Val., 1907, *Not*; Wilmington, Mt. Whiteface, 1916; N. Elba, 1918; Wilmurt; Malone (NYS). Last seen at Lancaster, 1878 (EPV). May; Aug. Cruciferae.

35i **P. virginiensis** Edw. Single-brooded. Authentic records are: Potsdam; vic. Buffalo (EPV); Slaterville (*Fbs*); Trenton Falls (*Fbs*); McLean, 1916–25, still very common locally. I do not know whether this or the preceding species was taken at Brooklyn, 1894, Sullivan Co, 1896, and Jay, 1911. May–Je. Slender Cruciferae.

37 **P. rapae** L. CABBAGE BUTTERFLY. Common everywhere in the open, introduced from Europe. Ap–Oct. Cruciferae, especially injurious to cabbage.

P. rapae var. **immaculata** Ckll. Occurs commonly in the spring brood.

ANTHOCHARIS Boisduval

(*Synchloë* Hübner in part)

43 **A. genutia** Fab. ORANGE TIP. Highlands of the Hudson, *Eng*; Greenwood, Tuxedo (Ds); Newburgh; Ramapo Mts.; **LI**: Canarsie (Blackburn). Ap–May. Arabis.

CALLIDRYAS Boisduval and LeConte

47 **C. eubule** L. CLOUDLESS SULPHUR. Rochester, rare (Angle); Wayne Co, *Mable R. Wiggins*; Washington Hgts., Crotona Pk., NYC (Wat); **SI**; **LI**, an annual visitor in late summer, Aug and Sep, but no breeding records on hand (Bell); large migrating swarms were observed along the seashore at Massapequa and Patchogue, Aug, 1920 (Eng); Yaphank, Sep, 1911 (Wks); Bayshore, Sep 25, 1913 (Dow); Bellport, Sep, 1911 (Nic); Jamaica, Sep 14, 1903, Aqueduct and Rockaway Beach, Sep 14 and 22 (Shoe); Long Beach, Sep 21, 1916 (Ds). Cassia.

ZERENE Hübner

55 **Z. caesonia** Stoll. DOG-FACED BUTTERFLY. **SI**, Jl, 1896, in numbers, but has not been seen since (Ds); **LI**: Prospect Pk.; Brooklyn (Doll).

EURYMUS Swainson

59 **E. eurytheme** Bdv. ALFALFA BUTTERFLY. Rochester, fairly common in Oct (Angle); E. Aurora, *Wild*; Allegany Pk., *W. Alex* (Wild); Cortland, reported fairly common, *Wickwire*; Van Cort. Pk., *ABKlots*; Washington Hgts. (Wat); **SI**; **LI**: "a single pair of this species was taken by the late *SLEliot* at Astoria" (Bt); Hicksville, Westbury (Doll); Brooklyn. All summer. The stray specimens in the northeast are mostly taken in Aug. Alfalfa, etc.

60 **E. philodice** Godt. CLOUDED SULPHUR. Common everywhere. **LI**, common everywhere: Flushing, May 8, Aug 2, Sep 10, Oct 7, Oakdale, Je 12, Hempstead, Jl 3, Syosset, Nov 19 (Bell). May–Oct. Clover, etc.

E. philodice ab. **pallidice** Scud. Common everywhere with the type. **LI**, common: Flushing, Je 30, Jl 14, Aug 10, Coram, Sep 2 (Bell).

E. philodice ab. **nigridice** Scud. Binghamton; Palmyra (Scud).

63 **E. interior** Scud. Mt. Marcy (Wat and Coleman); Keene Val. (NYS); Osgood Pond; Camp Lou; Newcomb; L. Tear; Paul Smiths (*W.P.Comstock*). Jl. Vaccinium.

EUREMA Hübner

76 **E. nicippe** Cr. LITTLE ORANGE SULPHUR. Ithaca; Pine I. (Lutz and Wat); **SI**, May–Oct, in 1880 appeared in great numbers (Ds); **LI**: Jamaica, common one season (Doll and Eng); Brooklyn; Glencove. All summer. Cassia.

78 **E. euterpe** Mén. LITTLE SULPHUR. Wayne Co, rare, *Wiggins*; Pittsford, *Boughton*; Buffalo (EPV); Yonkers; Bronxville; **SI**: Fox Hills; **LI**, locally common: Flushing, Jl 23, Aug 5, Sep 22, Coram, Sep 4, Jamaica, Jl 16 (Bell); Brooklyn. Cassia.

FAMILY **LYCAENIDAE** [94]

ATLIDES Hübner

334 **A. halesus** Cr. **LI**: Brooklyn, a stray from the Tropics. Oak.

STRYMON Hübner

(*Uranotes* Scudder, *Thecla*)

345 **S. columella** Fab. (*eurytulus* Hbn., *ocellifera* Grt.). E. Aurora (Scud); Buffalo. Both strays from the South. Jl.

352 **S. melinus** Hbn. (*humuli* Harr.). Keene Val., *Not*; Wilmington; Rochester (Angle); Bethlehem; **SI**, May–Sep (Ds); **LI**: Wyandanch, Ap 29, May 14, Flushing, Je 30, Sep 16, Coram, Sep 4, Hempstead, Sep 5 (Bell); Amagansett; Greenport. *Lespedeza hirta* and other legumes (Wat); reported also from hops, probably in error.

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[94] Most of the larvae in this family are feeders on flowers and fruits.

355 **S. autolycus ontario** Edw. Ithaca, Je 24 (CU).

358 **S. titus** Fab. Fentons; New Russia, *Jones*; E. Aurora, Allegany Pk. (Wild); Lancaster; Buffalo; Ithaca; McLean; Karner; Albany, *Cook*; Bethlehem; Riverdale; NYC; **SI; LI,** locally common: Flushing, Je 29, Oakdale, Jl 4 (Bell); Aqueduct; Yaphank. Jl–Aug. Wild cherry.

359 **S. acadica souhegan** Whitney. Keene Val., *Not*; Chilson L. (Wat and Cook); Rochester; Buffalo and vic. (EPV); Allegany Pk. (Wild); Stony Clove (Wat and Coleman); Boiceville (Blackburn); Karner; Bethlehem; Kingston; Gloversville (*Alex*); Sacandaga Pk. (Alex); Albany, *Cook*; Rhinebeck; Callicoon (Ds); Greenwood L., *Joutel*; Van Cort. Pk., one specimen (W.P.Comstock). Je–Jl. *Salix discolor.*

S. acadica ab. **swetti** Wat. & Comstock. Stony Clove, Jl 10 (Wat).

363 **S. edwardsi** Saund. Keene Val., abundant (*Not*); Ithaca; Minnewaska; Oneonta; Karner; Albany; Bethlehem; Greenwood L.; Ramapo, Jl (Ds); **LI:** Brooklyn; Yaphank, Jl 13 (Ds). Jl–Aug. Oak.

365 **S. calanus** Hbn. Rochester (Angle); Buffalo; E. Aurora (Wild); Castile, *Brad*; Ithaca; Kaaterskill; Sharon Sps.; Karner; Albany, *Cook*; Bethlehem (Lint); Esopus; Ft. Montgomery, Callicoon (Ds); Greenwood L.; **SI; LI,** locally common: Flushing, Je 28, Farmingdale, Jl 3, Kings Pk, Jl 27 (Bell); Half Way Hollow Hills, Wading R., Aug (Ds); Yaphank. Je–Aug. Hickory, butternut, and oak.

367 **S. liparops strigosa** Harr. This species is easily confused with forms of *S. calanus.* I have seen specimens from Ithaca, NYC, and Massapequa, LI. It is reported also from: Fentons; New Russia, *Jones*; Keene Val., abundant, *Not*; Rochester (Angle); Lockport (Lint); E. Aurora, *Dnd, Wild*; Karner; Bethlehem, E. Jewett (Ds); all very probably correct; **LI:** Kings Pk., Jl (Bell); Riverhead (Ds). Jl. *Vaccinium corymbosum* (Wat) and chokecherry (Wild).

MITOURA Scudder

377 **M. damon** Cr. GREEN HAIR-STREAK. Clayton; Taughannock; Ithaca; Ramapo (Ds); NYC; **SI,** May 8, 1881, *Lg* (Ds); **LI,** local in its distribution: Brooklyn; Coram, May 15, Je 10, Wyandanch, May 28 (Bell); Orient, *Lath*; Riverhead (Ds). May–Je; end Jl–Aug. Will probably be found general and not rare wherever its food, the red cedar, grows. The only definite record for form *patersonia* Brehme is Van Cort. Pk., Jl (Wat and Comstock).

INCISALIA Minot

379 **I. augustus** Kby. Plattsburg; McLean; Karner (Lint); Albany (Cook); **SI; LI,** very common in the pine-barren district: Central Pk., Ap 19, Wyandanch, May 28, Coram, Je 10 (Bell). May–early Je. Vaccinium and Kalmia.

381 **I. irus** Godt. Karner (Lint); Albany (Cook); **SI; LI:** Flushing (W.J.Hamilton,Jr.); Coram, May 6; Central Pk., Je 4 (Bell); Wyandanch, Yaphank (Ds). This species is doubtless widespread and not rare, but records are so confused with *I. henrici* and *I. polios* that I have not dared to use them. Ap–May. Wild indigo and lupine (Wat).

383 **I. henrici** G. & R. Karner; Albany (*Cook*); Schenectady, *Harry Cook*; Greenwood L. (Ds). Doubtless widespread, but confused with *T. irus.* May. Vaccinium.

[385 *I. polios* Cook & Wat. I have seen no NY records for this species, which certainly occurs, passing for *henrici*. End of Ap and early May. Arctostaphylos.]

388 **I. niphon** Hbn. Plattsburg; Keene Val., *Not*; Portage; Windsor, *Not*; Ithaca; McLean; Karner; Albany; Bethlehem; **SI,** 1881 (Ds); **LI,** locally distributed in the pine barrens: Central Pk., Ap 19, Wyandanch, May 28, Oakdale, Je 4 (Bell); Brooklyn; Massapequa, Yaphank, Wading R. (Ds). May–early Je, also Ap on LI. Pitch pine.

ERORA Scudder

393 **E. laeta** Edw. EARLY HAIR-STREAK. Keene Val., *Not*; Cortland, *Wickwire* (Angle); Ithaca (*Eyer*–CU); Catskills (Edw). May; Jl.

FENISECA Grote

396 **F. tarquinius** Fab. THE WANDERER. Wilmington; Elizabethtown; Beedes, Essex Co; Keene (Wild); Elk L.; Sand L.; Rochester, fairly common and local (Angle); Buffalo (Wild); Castile, *Brad*; Binghamton; Ithaca; McLean; Raven Pass; Gloversville; Bethlehem, Karner (Lint); Albany (*Cook*); Rensselaer; Croton-on-Hudson (Ds); Katonah; **SI; LI:** Oakdale, Jl 1 (Bell); Brooklyn Bot. Garden, Aug–Sep (Eng); Yaphank, Sep 3, 1910 (Ds); Orient Pt., Aug 2, 1913 (Ds); Grasmere. All summer, at least three broods. Mealy bugs or alder blight (Schizoneura) on alder.

HEODES Dalman

(*Chrysophanus* Hübner)

404 **H. thoë** Bdv.-Lec. LARGE COPPER. Keene Val. (*Not*); Mooers (*Not*); Fentons; Clayton; Rochester, *Angle*; E. Aurora, Buffalo (Wild); Oak Orchard Swamp; Ithaca; McLean; Oneonta; Gloversville (*Alex*); Saratoga; Karner; Bethlehem; Callicoon (Ds); **SI; LI,** not overly common, found in or close by damp meadows, sometimes in fair numbers: Flushing, May 28, Je 30, Jl 16, Aug 7, Sep 16, Jamaica, Jl 16 (Bell); Brooklyn; Aqueduct. Je–Sep. Local in wet places. *Rumex crispus*; reported also from Polygonum.

409 **H. epixanthe** Bdv.-Lec. SMALL COPPER. Keene Val. (NYS); Buffalo (EPV); McLean (on the bogs only); L. Ontario shore; **LI:** Yaphank, Manorville, Amagansett, Montauk, Je–Jl (Eng). Jl–Aug. Cranberry.

410 **H. hypophlaeas** Edw. COMMON COPPER. Very common everywhere. **LI;** generally distributed and usually very common: Flushing, May 8, Aug 2, Sep 16, Jamaica, Je 18, Farmingdale, Jl 3, Oakdale, Jl 4, Coram, Sep 10 (Bell). May–Aug. Sorrel.

H. hypophlaeas ab. **fasciatus** Strk. Rochester, *Franck* (Angle); **SI,** May–Oct (Ds); **LI:** Flushing, May 21, Jl 2 (Bell); Amagansett.

H. hypophlaeas ab. **obsoletus** Scud. **LI:** Glendale, Aug 26, 1923, *J.B.Mesle*.

H. hypophlaeas ab. **fulliolus** Hulst. Orchard Pk., May 3 (Wild).

EVERES Hübner

424 **E. comyntas** Gdt. TAILED BLUE. Common everywhere. **LI,** generally distributed and very common: Flushing, May 8, Aug 2, Sep 16, Oakdale, Je 12, Hempstead, Jl 3, Central Pk., May 3 (Bell). All summer, two broods. Larvae on flowers of Lespedeza and other legumes.

PLEBEIUS Linnaeus

(*Rusticus* Hübner)

426 **P. scudderi** Edw. Clayton; Adirondacks; Karner (div.); Albany (Cook). May–Je; Jl–Aug. *Lupinus perennis* (Wat).

GLAUCOPSYCHE Scudder

(*Nomiades*)

449 **G. lygdamus** Dbl. Ithaca, May 17, 1914, female (*Eyer*); Binghamton. May. Probably a leguminous feeder.

LYCAENOPSIS Felder

(*Cyaniris*)

452 **L. argiolus pseudargiolus** Bdv.-Lec. (*ladon* auct.). Common everywhere. **LI:** Flushing, Ap 21, Jl 30, Aug 13, Sep 13, Kings Pk., May 9, Jamaica, Je 18, Coram, May 15 (Bell). Ap–Aug. General on flowers, but especially on *Viburnum acerifolium* and *Cornus florida* (Wat).

L. argiolus pseudargiolus form **lucia** Kby. Reported from: Potsdam; Buffalo; Karner; Albany; West Pt.; Newburgh; Yonkers to **SI; LI:** Wyandanch, May 6, 1911 (Ds); Central Pk.; Glendale. Ap.

L. argiolus pseudargiolus form **marginata** Edw. N. Fair Haven; Rochester; Ithaca; Yonkers; **SI; LI:** Kings Pk., May 9, Flushing, Je 29 (Bell). Ap–May.

The other forms are too confused to make records trustworthy, May–Aug.

FAMILY ERYCINIDAE

(*Riodinidae*)

CALEPHELIS Grote and Robinson

329 **C. borealis** G. & R. NORTHERN METAL-MARK. Upper Coldenham, Orange Co, is the northern record for the species and family. May; **Jl.**

FAMILY NYMPHALIDAE

SUBFAMILY LIBYTHEINAE

HYPATUS Hübner

320 **H. bachmani** Kirt. SNOUT BUTTERFLY. Van Cort. Pk. (Wat); Central Pk., NYC (Coleman); **SI; LI:** Center I., Oyster Bay, Aug 15, 1896 (Ds); Dyker Meadows, Brooklyn, Aug 9, 1908 (Shoe); Coram, Je 10; Kings Pk., Jl 20 (Bell); Bay Ridge; Woodhaven. Celtis.

SUBFAMILY DANAINAE

DANAUS Linnaeus

84 **D. archippus** auct. (*Anosia plexippus* L.). MILKWEED BUTTERFLY. Common everywhere, but probably only as a migrant, not wintering in the State. **SI,** Ap 25, earliest date (Ds); **LI,** generally distributed and sometimes

very common: Flushing, May 21, Je 4, Jl 2, Aug 13, Sep 10, Oct 12, Hempstead, Jl 3, Oakdale, Jl 4 (Bell). Jl–Sep, two broods northward. Milkweed.

SUBFAMILY SATYRINAE

ENODIA Hübner

90 **E. portlandia** Fab. (*Debis*). New Russia; Keene Val., *Not*; Clayton; Newcomb; Mendon (Deveson); Allegany Pk. (Wild); Ithaca; McLean; Cortland, *Wickwire*; Ulster Co; West Pt.; Sloatsburg (Cook); Pocantico Hills. Je–Jl. Grass.

SATYRODES Scudder

100 **S. canthus** L. Essex Co; L. Waccabuc; Fentons; Clayton; Fulton; Rochester (Deveson); Buffalo (Wild); E. Aurora; Squaw I.; Potter Swamp; Ithaca; Freeville; McLean; Oneonta; Gloversville, Sacandaga Pk. (Alex); Hebron, *Wls*; Karner; Ushers; Durlandville; Crugers; Yonkers; Bronxville; **SI; LI,** locally common: Flushing, Jl 2 and 27, Oakdale, Jl 10 (Bell). Jl. Coarse swamp grass.

CISSIA Doubleday

(*Neonympha*)

97 **C. eurytus** Fab. Common everywhere. Black Br.; Fentons; Clayton; Rochester; Wayne Co; Niagara Falls; Buffalo; Rock City; Egleston's Glen; Portage; Ithaca; Oneonta; Kaaterskill; Greenwood L.; Karner; Albany; Bethlehem; Stuyvesant Falls; Katonah; **SI; LI,** locally common: Coram, May 22, Huntington, Je 5, Farmingdale, Jl 3, Kings Pk., Aug 13 (Bell); Wading R.; Gardiners I. End of Ap–Sep, two broods. Grass.

CERCYONIS Speyer

111 **C. alope** Fab. (*Satyrus*). BLUE-EYED SATYR. The typical form is mainly southern, reported from: Essex Co; Fentons; Chain Lakes; Rochester, rarer than var. *nephele*; Lancaster; Buffalo; Liberty; Lexington; Ulster Co; Sharon Sps.; Oneonta; Schoharie; Gloversville, Sacandaga Pk. (*Alex*); Hebron, *Wls*; Karner; Stuyvesant Falls; Katonah; **SI; LI,** locally common: Farmingdale, Jl 3, Flushing, Jl 30, Kings Pk., Aug 13, Coram, Sep 4 (Bell); Gardiners I. (Ds). The records from the Adirondacks should be verified. The form has often been sought at Ithaca without success. Jl–Aug. Grass.

111c **C. alope nephele** Kby. BLIND-EYED SATYR. This northern form is known from: Waddington; Wilmington; Long L.; Fentons; Clayton; Geneva; Rochester; Scriba; Buffalo; Otto; Allegany Pk.; Ithaca; McLean; Sullivan Co, above 1000 ft.; Lexington; Hunter; Onteora Mt.; S. Jefferson; Summit; Sharon Sps.; Schoharie; Bethlehem. Skinner's record from NYC must have been a stray.

111a **C. alope maritima** Edw. occurs on **SI** and at Yaphank, **LI,** but the latter specimens are hardly typical.

SUBFAMILY HELICONIINAE

DIONE Hübner

150 **D. vanillae** L. GULF FRITILLARY. Upper Twin L.; Central Val., *Carleen Maley* (Felt). A stray from the South.

SUBFAMILY NYMPHALINAE

EUPTOIETA Doubleday

151 **E. claudia** Dru. VARIEGATED FRITILLARY. Lancaster (EPV); Pittsford, *Boughton*; Buffalo; Ithaca, Sep (*Philip Miller*); Oneonta; NYC (div.); **SI; LI,** not common: Aqueduct (Wat); Flushing, Jl 29, Sep (Bell); Woodhaven (Pears); Rockaway Beach (Ds); Wading R., May 31, 1914 (Ds); Brooklyn, larvae on pansy plants, Jl–Aug (Eng). A stray from the South. Aug. Passion flower; rarely Sedum (Wat) and violet.

ARGYNNIS Fabricius

(*Speyeria* Scudder)

153 **A. idalia** Dru. Binghamton (Blackburn); Hebron (Wls); Karner; Hudson Falls (Alex); Albany (Cook); Bethlehem (Lint); Boiceville (Blackburn); Nyack; Van Cort. Pk. (Wat and Coleman); **SI; LI,** locally common: Hempstead, Jl 3, Flushing, Jl 23, Aug 13, Coram, Sep 10 (Bell); Brooklyn; Aqueduct; Montauk, Riverhead, Gardiners I. (Ds). Local in wet places, and will probably prove more widespread. Jl–Sep. Violets.

158 **A. cybele** Fab. Mt. Whiteface; Waddington; Fentons; Long L.; Clayton; Rochester; Buffalo; E. Aurora; Allegany Pk.; Oak Orchard Swamp; Ithaca; McLean; Binghamton; Pittsfield; Oneonta; Hunter; Onteora Mt.; Shelving Rock; Glen, Warren Co; Schoharie; Gloversville; Bethlehem; Cropseyville; Newburgh; Greenwood L.; Katonah; **SI; LI,** common: Flushing, Je 16, Jl 9, Aug 5, Oakdale, Jl 4, Hempstead, Jl 3 (Bell); Brooklyn. Jl–Sep. Violets.

159 **A. aphrodite** Fab. Everywhere in the State from the Adirondacks and Buffalo to **SI.** Commoner northward than *A. cybele.* **LI:** Flushing, Jl 30 (Bell); Richmond Hill (Doll). Franck reports the Mississippi Val. form, *alcestis* Edw., from Sullivan Co, probably in error. Jl–Aug. Violets.

162 **A. atlantis** Edw. Keene; Ausable Chasm; Wilmington; Mt. Marcy and vic.; Newcomb; Saranac Inn; Long L.; Chain Lakes; Fentons; Glen, *Meske*; Buffalo (EPV); E. Aurora (*Dnd*); Allegany Pk.; Ithaca; McLean (Fbs); Deposit; Warners L. (Cook); Stuyvesant Falls; Slide Mt.; Stony Clove; Onteora Mt.; Mountain L., Johnstown (*Alex*). Jl–Aug. Violets.

BRENTHIS Hübner

187 **B. myrina** Cr. LITTLE SILVER-SPOT. St. Lawrence R. and Buffalo to LI; common in wet places. **LI,** common in damp meadows: Flushing, May 26, Je 4, Jl 2, Aug 2, Sep 16, Oakdale, Je 19 (Bell); Yaphank. Je–Sep. Violets.

199 **B. bellona** Fab. MARSH FRITILLARY. Everywhere with the preceding species. Specimens from the Appalachian highlands (Rock City) are lighter than usual. May–Sep. Violets.

EUPHYDRYAS Scudder

203 **E. phaëton** Dru. THE BALTIMORE. Fentons; Keene; Rochester; Conesus L.; E. Aurora; Elma; Colden; Ithaca; McLean; Vestal; Oneonta; Sand L.; Raven Pass; Karner; Ulster Co; Gloversville; Dutchess Co; **SI; LI,** common in damp meadows: Flushing, May 28, Je 4, Jl 15, Jamaica, Jl 15 (Bell). Common, though decidedly local in wet places. Je–early Jl. Turtlehead.

E. phaëton ab. **superba** Strk. **LI:** Brooklyn (type).

E. phaëton ab. **phaëthusa** Hulst. **LI:** Brooklyn (type).

E. phaëton ab. **streckeri** Ellsworth. Vestal (type).

CINCLIDIA Hübner

228 **C. harrisii** Scud. (*ismeria* of Harr.). HARRIS' CHECKER-SPOT. Black Br.; Chilson L. (Wat and Cook); Whiteface; N. Brookfield, *Not*; Rock City; Potter Swamp; McLean; Debruce; Raven Pass; Karner, *Lint*; Albany, *Cook*; Sloatsburg (Wat); N. Westchester Co (*W.C.Wood*); Bedford; **LI:** Brooklyn. The last two records should be verified. Late Je–early Jl. *Aster umbellatus.*

CHARIDRYAS Scudder

243 **C. nycteis** Dbl. & Hew. SILVER CRESCENT. Whiteface; Fentons; Keene; Clayton; Rochester; Buffalo; Gowanda; E. Aurora; Ithaca; Oneonta; Ulster Co; Gloversville (*Alex*); Karner; Albany; Greenwood L.; Sloatsburg; Van Cort. Pk.; **LI:** Yaphank, May 30, 1911 (Grossbeck); Woodhaven, Je 7, 1919 (J. Kaiser). Usually common where it occurs. Jl. *Helianthus* spp., especially *H. divaricatus,* and occasionally on aster (Wat).

PHYCIODES Hübner

247 **P. tharos** Dru. PEARL CRESCENT. Essex Co; Fentons; Honeoye Falls; Buffalo; Otto; Rock City; Potter Swamp; Ithaca; McLean; Oneonta; Hunter; Karner; Bethlehem; Stuyvesant Falls; Poughkeepsie; **SI; LI,** very common: Flushing, May 7, Aug 2, Oct 1, Oakdale, Je 12, Jamaica, Jl 16, Coram, Sep 4 (Bell); Yaphank. The preceding are representative records; the species occurs everywhere. May–Oct. Aster.

P. tharos ab. **reaghi** Reiff. **LI:** Flushing, Aug 10, 1918 (Bell).

248 **P. batesii** Reak. BATES' CHECKER-SPOT. Black Br.; Fentons; Keene Val. (NYS); between Chilson L. and Paradox L. (Cook); Gowanda; Rock City; Crosby; W. Danby (a suffused aberration); Ithaca; Schoharie; Sharon Sps.; Gloversville (*Alex*); Bethlehem; Karner, *Lint*; Albany, not now found (Cook); Hunter; **LI** (Bt), but probably in error. Je–Jl, one brood, at any given place flying between the two broods of *P. tharos. Aster undulatus.*

POLYGONIA Hübner

268 **P. interrogationis** Fab. THE SEMICOLON. Newport (NYS); N. Fair Haven; Centerport; Buffalo; E. Aurora; Rock City; Oneonta; Ithaca; Catskills; Ballston Spa (NYS); Coeymans; Stuyvesant Falls; NYC; **SI; LI:** Flushing, May 11, Je 20, Jl 30, Aug 15, Sep 16, Oct 5, Farmingdale, Jl 3 (Bell). The form *umbrosa* Lint. is definitely known from: Rochester; E. Aurora; Buffalo; Ithaca; McLean; Oneonta; Gloversville, Sacandaga Pk. (*Alex*); Albany; Bethlehem; **LI:** Woodhaven, Central Pk. Two broods, one in midsummer, the other emerging in the fall and overwintering. Elm, hop, and Celtis.

269 **P. comma** Harr. HOP MERCHANT. Fentons; Clayton; Geneva; Buffalo; E. Aurora; Irving; Portage; Ithaca; McLean; Oneonta; Catskills; Schoharie; Gloversville; Bethlehem; Hebron, *Wls*; Albany; Rensselaer; NYC; **SI; LI:** Brooklyn; Flushing, Jl 14, Aug 12, Sep 16, Oct 1 (Bell); Gardiners I. Var. *dryas* Edw. reported from: Rochester; Buffalo; E. Aurora; Allegany Pk.; Ithaca; Oneonta; Catskills, Ulster Co; Schoharie; Albany; Katonah. Jl; winter. *Urticastrum divaricatum,* and less commonly on elm and hop (Wat).

271 **P. faunus** Edw. GREEN COMMA. Wilmington; Mt. Whiteface; Raquette L.; Elk L.; Fentons; Jay; L. Pleasant; Hamburg; Buffalo (EPV); Allegany Pk. (Wild); Cortland, *Wickwire*; Sidney; Debruce; Raven Pass, Catskills; Gloversville (*Alex*); Schoharie. Birch, willow, currant, etc.[95]

275 **P. gracilis** G. & R. Keene Val. (NYS).

277 **P. progne** Cr. GRAY COMMA. Jay; Mt. Whiteface; Fentons; Geneva; Rochester; Buffalo; Otto; E. Aurora; Allegany Pk.; Rock City; Ithaca; Oneonta; Onteora Mt.; Debruce; Cambridge; Schoharie; Bethlehem; Esopus; Ft. Montgomery; Sloatsburg; Big I., Pine I., Woodbury Falls (Wat); Van Cort. Pk.; **SI; LI:** Flushing, Je 23, Aug 11 (Bell); Brooklyn. Currant and gooseberry.

P. progne form **l-argenteum** Scud. Ft. Montgomery, Je 24–Jl 4 (Wat and Hall); Sloatsburg, Jl 3 (Wat).

AGLAIS Dalman

(*Vanessa* Fabricius in part)

278 **A. j-album** Bdv.-Lec. LARGE TORTOISE-SHELL. Plattsburg; Wilmington; Jay; Elk L.; Fentons; Newport (NYS); N. Elba (Wat and Coleman); Rochester (Angle); E. Aurora (Wild); Clayton; Lancaster, Buffalo (EPV); Allegany Pk. (Angle); Ithaca; Cortland, *Wickwire*; Shelving Rock, L. George; Edgewood (Wat and Coleman); Debruce (Ds); Onteora Mt.; Gloversville and vic. (*Alex*); Corinth; Karner; Albany; Sloatsburg; Croton-on-Hudson (Ds); NYC (div.); **SI; LI:** Flushing, Ap 7 (Bell); Glendale (Kch); Yaphank, Oct 1 and 2, 1910 (Ds); Maspeth (Ols); Brooklyn. Sep–Jl, one brood. Birch.

280 **A. milberti** Gdt. SMALL TORTOISE-SHELL. Ausable Chasm; Canton; Long L.; Fentons; Rochester (Angle); Buffalo; E. Aurora (Wild); Portage; Potter Swamp; Ithaca; Binghamton; Marathon; Catskills; Callicoon (Ds); Oneonta; Schoharie; Gloversville; Canajoharie; Lebanon Sps.; Hebron; Hudson; NYC; **SI; LI:** Flushing, Jl 28 (Bell); Brooklyn; Astoria; Seacliff; Wyandanch. All the season, three broods. Nettle.

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[95] *P. satyrus* Edw. was reported from Fentons, collected by Hill, doubtless in error for *P. faunus*.

281 **A. antiopa** L. MOURNING CLOAK or YELLOW EDGE. Very common everywhere. **LI**, generally distributed and common, may be found hibernating throughout the winter: Flushing, Mar 26, Ap 7, May 8, Aug 2, Oct 22, Nov 19, Port Washington, Je 26, Farmingdale, Jl 3, Kings Pk., Sep 4 (Bell). The ab. *hygiaea* Heyd. has been taken at Rochester, Albany (Scud), and Morrisania, NYC (Wat). All the year, two broods. Elm, willow, etc.

VANESSA Fabricius

282 **V. atalanta** L. RED ADMIRAL. Common everywhere in the State. **LI**, generally distributed, some years very common, other years scarce: Flushing, Je 30, Jl 23, Aug 18, Oct 5 (Bell). Jl–Aug; Sep–Je. Nettles, rarely elm, etc.

283 **V. virginiensis** Dru. (*huntera* Fab.). PAINTED BEAUTY. Saranac Inn; Mt. Marcy; Clayton; N. Fair Haven; Rochester; Buffalo; Allegany Pk.; Ithaca; Oneonta; Ulster Co; Schoharie; Castleton; Gloversville; Hebron; Bethlehem; Katonah; **SI; LI**, generally distributed and usually common: Flushing, May 26, Aug 13, Jamaica, Je 18, Oakdale, Jl 4, Coram, Sep 5 (Bell). Common everywhere, but rarely as common as the other two Vanessas. Everlasting.

284 **V. cardui** L. PAINTED LADY. Very common all over the State. **LI**: Flushing, Jl 13, Sep 13 (Bell). Thistle, burdock, etc.

JUNONIA Hübner

(*Precis* in part)

286 **J. coenia** Hbn. BUCK-EYE. Wayne Co, *Wiggins*; Lancaster (EPV); Buffalo; Squaw I.; Newburgh; Bronxville; **SI; LI**, common: Flushing, May 26, Je 30, Jl 30, Aug 13, Sep 29, Oct 5 (Bell); Brooklyn; Jamaica; Newtown; Corona; Bellmore; Rockaway; Aqueduct; Orient, *Lath.* All summer, several broods. Gerardia and other Scrophulariaceae.

BASILARCHIA Scudder

304 **B. astyanax** Fab. RED-SPOTTED PURPLE. General in the southern part of the State, replaced by *B. arthemis* northward: E. Aurora; Cattaraugus; Shandaken; West Kill; Catskills; Schoharie; Gloversville; Karner; Albany; Bethlehem; Stuyvesant Falls; Poughkeepsie; Pine I.; **SI; LI**, generally distributed and common: Jericho, May 29, Flushing, Je 9, Aug 2, Sep 16, Farmingdale, Jl 3 (Bell); Brooklyn; Gardiners I. Wild cherry, etc.

B. astyanax form **albofasciata** Newc. This form is very close to *arthemis* in appearance, and not usually separated from it, but in distribution is associated rather with *astyanax*. Definite records are: Rochester (Angle); **SI** (Fulda); **LI**, not common: Flushing, Aug 5, 1922 (Bell); Glendale (*Kch*). Part of the *arthemis* records probably should be credited to this form..

305 **B. arthemis** Dru. WHITE ADMIRAL. Elizabethtown; Big Moose; Mt. Marcy; N. Elba (Wat and Coleman); Newcomb; Keene (Wild); Fentons; E. Aurora; Buffalo; Allegany Pk. (Wild); Rock City; Ithaca; Raven Pass; Hunter; Onteora Mt.; Big Ind. Val.; Lexington; Oneonta;

Edgewood (Wat and Coleman); Schoharie; Mountain L., Johnstown (*Alex*); Karner; Bethlehem; Catskill. Je–Jl. Black and yellow birch, basswood (Wat), and willow.

B. arthemis form **proserpina** Edw. N. Elba, scarce (Wat and Coleman); Rochester, Honeoye Falls, Buffalo (Angle); Jamestown (Wild); Rock City; Riceville (Wild); Ithaca; McLean; Catskills; Andes; Hebron (Wls); Edgewood, relatively common (Wat and Coleman). A report from LI is certainly in error. Je–Jl.

308 **B. archippus** Cr. (not *archippus* Fab.). THE VICEROY. Common throughout the State. **LI,** common: Flushing, Je 4, Jl 9, Aug 2, Sep 16, Oakdale, Je 19, Hempstead, Sep 5 (Bell). The var. *pseudodorippus* Strk., which is probably *archippus* × *astyanax,* was taken in the Catskills. Je–Sep. Willow, rarely poplar.

B. archippus form **lanthanis** Cook & Wat. Rochester (Angle); Albany (Cook); Pearl R. (Wat). Transitional specimens occur generally.

APATURA Boisduval-LeConte

(*Chlorippe* Boisduval, *Doxocopa*)

311 **A. celtis** Bdv.-Lec. **LI,** formerly (Doll) reported by Angle. Celtis.

313 **A. clyton** Bdv.-Lec. THE EMPEROR. Esopus; Newburgh; NYC, Jl 15, form *proserpina* Scud., *L. Johnson*; **SI; LI:** Hempstead, Jl 3, 1921 (Bell). Celtis.

ORDER DIPTERA

Edited by O. A. JOHANNSEN

The original draft of the list of Diptera was completed more than twelve years ago. It was based in large part on the specimens in the Cornell University collection and in the State Museum at Albany, and on published records. When Dr. M. D. Leonard assumed the editorship of the list of the insects of New York, and the prospect for publication became brighter, the parts relating to some of the families were sent to specialists and later the entire list of Diptera was submitted to C. W. Johnson and Dr. Joseph Bequaert. Many additional records were thus obtained. Acknowledgment to the various entomologists who have helped to make the list more complete, is made in the appropriate places.

The classification followed, in the main, is that given in Comstock's *Introduction to Entomology.* The arrangement of families and genera, with slight modifications, is that of Johnson's *List of the Diptera of New England.* Bibliographical references are not made, owing to the limitations of space. The reader is referred to Aldrich's catalog of the Diptera for those prior to 1905, and to Johnson's list for the more important recent ones. Synonymy is given only in a few cases, where otherwise a misunderstanding might arise.

FAMILY **TANYDERIDAE**[96]

COMPILED BY C. P. ALEXANDER

PROTOPLASA Osten Sacken

P. fitchii O.S. Fulton Co, Je, 1909 and 1924 only, a total of ten specimens (*Alex*).

FAMILY **PTYCHOPTERIDAE**

SUBFAMILY **PTYCHOPTERINAE**

PTYCHOPTERA Meigen

P. rufocincta O.S. Dunkirk, Jl; Fulton Co, Je–Aug; Manlius, Aug; Batavia; Erie Co, Je–Aug; Ithaca, May–Jl; Portage Falls; Hudson R. Val., May; **LI:** Wyandanch, May–Je, *Ds* (Jn).

SUBFAMILY **BITTACOMORPHINAE**

BITTACOMORPHA Westwood

B. clavipes Fab. Adirondacks, L. George; Essex Co; Fulton Co; Brookview; Erie Co; Manlius; Ithaca; Poughkeepsie; **LI**, etc. May–Sep.

BITTACOMORPHELLA Alexander

B. jonesi Jn. Fulton Co; S. Wales; Ithaca; Taylor; Karner; Brookview; Je–Jl.

FAMILY **ANISOPODIDAE**

(*Rhyphidae*)

SUBFAMILY **ANISOPODINAE**

(*Rhyphinae*)

ANISOPUS Meigen

(*Rhyphus* Latreille)

A. alternatus Say. Foot of Cliff Mt., Essex Co (Beq); Speculator, Wells, Je–Jl, *Yg* (Leon); Keene Val., Aug (Leon); Axton; E. Aurora; Ithaca; Albany, Ap–Je (NYS).

A. fenestralis Scop. Hamburg; Ithaca; New Hartford, Ap–May, *Yg* (Leon); Albany, Sep (Leon); Nassau, Je (Leon).

A. punctatus Fab. Speculator, Je–Aug, *Yg* (NYS); Newport, Je, *Yg* (NYS); Ilion, May, *Yg*; Johnstown, Aug (Leon); Erie Co; Ithaca, May–Oct; Nassau, May (Leon); Corinth, Je, *Yg*; Clinton Hgts., Ap (NYS); Albany, May–Jl (NYS); Normanskill, May (NYS).

SUBFAMILY **AXYMYINAE**

AXYMYIA McAtee

A. furcata McAtee. Ithaca (Snn).

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[96] The list in this and in the families Ptychopteridae, Anisopodidae, Trichoceridae, and Tipulidae, commonly called the crane-flies, has been prepared by Dr. C. P. Alexander. All determinations are to be credited to him unless otherwise indicated.

SUBFAMILY **MYCETOBIINAE**

MYCETOBIA Meigen

M. divergens Wlk. Ithaca, May (Joh); Albany.

FAMILY **TRICHOCERIDAE**

TRICHOCERA Meigen

T. bimaculata Wlk. Fulton Co, Sep; Erie Co, Oct; Ithaca and vic., Oct, May.
T. brumalis Fitch. Fulton Co; Ithaca, Sep–Oct.

DIAZOSMA Bergroth

D. subsinuata Alex. Fulton Co, Je; Albany Co, near Altamont, Je (*Crampton*).

FAMILY **TIPULIDAE**

SUBFAMILY **LIMONIINAE**

Tribe **LIMONIINI**

DICRANOMYIA Stephens

D. adirondacensis Alex. Keene Val., Sep.
D. badia Wlk. Hamilton, Fulton, Schoharie, Erie, Herkimer, Niagara, Tompkins, and Cortland Counties; **LI.** Ap–Oct.
D. brevivena O.S. Herkimer, Fulton, Erie, Niagara, and Cayuga Counties. Je–Oct.
D. gladiator O.S. Fulton Co, Aug.
D. globithorax O.S. Fulton Co, Aug; Erie and Tompkins Counties. May–Sep.
D. haeretica O.S. Buffalo, Oct; vic. NYC; **LI,** Jl–Oct.
D. halterata O.S. Fulton Co, Sep.
D. immodesta O.S. Adirondacks; Essex Co; Fulton Co; N. Fair Haven; Buffalo; Taylor; Ithaca; Rensselaer Co, Brookview, Je. Je–Oct.
D. liberta O.S. Fulton, Essex, Herkimer, Erie, Tompkins, Cortland, Onondaga, Albany, Rensselaer, and Westchester Counties; **LI.** Je–Sep.
D. longipennis Schum. Erie and Fulton Counties; Trenton Falls; Ithaca; W. Nyack; **LI,** etc. Je–Sep.
D. macateei Alex. Fulton and Essex Counties. Je–Jl.
D. moniliformis Doane. **LI.**
D. monticola Alex. Hamilton, Fulton, Chenango, and Cortland Counties. Je–Jl.
D. morioides O.S. Herkimer, Fulton, Tompkins, and Erie Counties. Je–Jl.
D. pubipennis O.S. Hamilton, Fulton, Erie, Tompkins, Cortland, Chenango, Rensselaer, and Westchester Counties. May–Sep.
D. pudica O.S. Fulton, Erie, Tompkins, Cortland, Chenango, and Schenectady Counties. May–Jl.
D. rara O.S. Genesee Co, Sep; Westchester Co, Je.
D. rostrifera O.S. Fulton and Cayuga Counties. Je–Sep.
D. simulans Wlk. Fulton, Herkimer, Erie, Tompkins, Cortland, Albany, Rensselaer, and Westchester Counties. May–Nov. **LI,** Jl.
D. stulta O.S. Herkimer, Fulton, and Tompkins Counties. Je.

GERANOMYIA Haliday

G. diversa O.S. Herkimer, Erie, and Tompkins Counties. Aug.

G. canadensis Westw. Herkimer and Fulton Counties, Je; Erie Co, Je–Sep; Onondaga Co, Aug; Tompkins Co, May–Oct.

G. rostrata Say. Fulton, Tompkins, and Cayuga Counties. May–Sep.

RHIPIDIA Meigen

(Subgenus MONORHIPIDIA Alexander)

R. fidelis O.S. Fulton, Essex, Erie, Tompkins, Cortland, Albany, and Schoharie Counties. May–Jl.

(Subgenus RHIPIDIA Meigen)

R. bryanti Jn. Erie Co, Je.

R. maculata Meig. Adirondacks; Essex, Fulton, Chenango, Cortland, and Tompkins Counties. Je–Aug.

LIMONIA Meigen

(*Limnobia* Meigen)

L. cinctipes Say. Adirondacks; Essex, Fulton, Onondaga, Erie, Cattaraugus, Chenango, and Tompkins Counties. May–Aug.

L. fallax Jn. Tompkins and Genesee Counties. May–Jl.

L. hudsonica O.S. Erie Co, Je (MCV).

L. immatura O.S. Essex, Fulton, Herkimer, Erie, Tompkins, and Albany Counties. Je–Jl.

L. indigena O.S. Adirondacks; Essex, Fulton, Onondaga, Erie, Niagara, Cattaraugus, Tompkins, and Saratoga Counties. May–Oct.

L. parietina O.S. Adirondacks; Fulton, Erie, and Tompkins Counties. Aug–Sep.

L. solitaria O.S. Adirondacks, Jl; Essex and Fulton Counties, Je–Aug; Tompkins Co, May–Je; Brookview, Rensselaer Co, Je; Catskills, Jl.

L. triocellata O.S. Adirondacks; Essex, Fulton, Onondaga, Erie, Tompkins, Cortland, Putnam, and Rockland Counties. Je–Oct.

L. tristigma O.S. Adirondacks; Fulton, Niagara, Cortland, and Chenango Counties. Jl–Aug.

DISCOBOLA Osten Sacken

D. argus Say. Adirondacks; Essex Co; Gloversville; Rochester; Batavia; Erie Co; Little Valley; Keuka Pk.; Cincinnatus; Ithaca, Je–Oct.

HELIUS St. Fargeau et Serville

(*Rhamphidia* Meigen)

H. flavipes Macq. Fulton Co; Buffalo; Ithaca; Albany; Helderbergs; **LI.** May–Aug.

H. mainensis Alex. Ithaca, May.

DICRANOPTYCHA Osten Sacken

D. germana O.S. Adirondacks; Essex Co; Griffin; Sacandaga Pk.; S. Wales; Ithaca; Manlius; Lower Cincinnatus; Taylor. Late Je–Jl.

D. septentrionalis Alex. Mayfield Mt.; N. Fair Haven; Ithaca. Aug–Sep.

ANTOCHA Osten Sacken

A. obtusa Alex. Genesee Co, *Kngt.*

A. opalizans O.S. Keene Val., Aug; Helderbergs, Albany Co, Je.

A. saxicola O.S. Adirondacks; Sacandaga Pk.; Manlius; Honeoye Falls; Buffalo; Ithaca; Taylor; Mohawk R. valley; Tarrytown. May–Sep.

A. septentrionalis Alex. Niagara Falls, Sep.

Tribe ERIOPTERINI

ORMOSIA Rondani

O. adirondacensis Alex. Fulton Co; Mountain L.; Woodworth's L.; Gloversville. Je.

O. apicalis Alex. Fulton Co, Je; Ithaca, Aug.

O. arcuata Doane. Hamburg; Ithaca. May.

O. bilineata Dietz. Holland, May.

O. dentifera Alex. Essex Co; Keene Val. May.

O. deviata Dietz. Fulton and Herkimer Counties, Je; N. Fair Haven, Sep; Hamburg, May; Onondaga, Tompkins, Rensselaer, and Westchester Counties, Je.

O. holotricha O.S. Johnstown; Ithaca. Ap–May.

O. innocens O.S. Hamburg; Ithaca; McLean; Albany; **LI.** May.

O. megacera Alex. Gloversville, Je.

O. meigenii O.S. Fulton Co; Erie Co, May; Ithaca, Ap–Je; Albany, May, Sep, *Yg*; Westchester Co, Je.

O. mesocera Alex. Essex Co, Jl; Gloversville, Je.

O. monticola O.S. Adirondacks; Speculator; Fulton Co; Colden; Ithaca. Aug.

O. nigripila O.S. Essex Co; Fulton Co, Je–Aug; Onondaga; Ithaca, May–Je; Tarrytown; **LI.**

O. nimbipennis Alex. Hamilton Co, Jl–Aug; Fulton Co, Aug; Wells, Jl, *Yg*; Newport, Je, *Yg*; Elm L., Jl–Aug, *Yg*.

O. notmani Alex. Keene Val., May; Albany, May, *Yg*.

O. nubila O.S. Johnstown; Erie Co, Sep–Oct; Ithaca, Ap–May; Trenton Falls; Albany; **LI.**

O. parallela Doane. Ithaca.

O. perplexa Dietz. Erie Co, May.

O. pygmaea Alex. Fulton Co, Aug; Hamburg, May; Ithaca.

O. rubella O.S. Fulton Co; Green L.; Indian Castle; N. Fair Haven; Erie Co; McLean; Albany, Sep, *Yg*; Tarrytown; West Pt. Je–Sep.

ERIOPTERA Meigen

(Subgenus **ERIOPTERA** Meigen)

E. chlorophylla O.S. Adirondacks; Sacandaga Pk.; Erie Co; Ithaca; Albany; **LI.** Je–Aug.

E. chrysocoma O.S. Fulton Co; Tarrytown. Je–Jl.

E. ebenina Alex. Ontario, Gloversville, Je.

E. megophthalma Alex. Sacandaga Pk.; Indian Castle; Ithaca; Brookview; Tarrytown. Je.

E. septemtrionis O.S. Adirondacks; Essex, Fulton, and Erie Counties; Ithaca; Canastota; Sharon Sps.; Brookview. Ap–Aug.

E. straminea O.S. Sacandaga Pk.; Erie Co. Je.

E. vespertina O.S. Sacandaga Pk.; Hamburg; Vandalia; Ithaca. May–Jl.

E. villosa O.S. Erie Co. May–Jl.

(Subgenus **ILISIA** Rondani)

E. armillaris O.S. Fulton and Erie Counties; Ithaca; Trenton Falls; Lower Cincinnatus. Je–Aug.

E. graphica O.S. Ithaca. Jl–Aug.

E. venusta O.S. Adirondacks; Gloversville; Rochester Jct.; Batavia; Erie Co; Gowanda; Ithaca; Hudson R. valley; **LI.** May–Sep.

(Subgenus **HOPLOLABIS** Osten Sacken)

E. armata O.S. Sacandaga Pk.; Indian Castle; Rochester; Erie Co; Ithaca; Tarrytown. May–Sep.

(Subgenus **MESOCYPHONA** Osten Sacken)

E. caloptera O.S. Sacandaga Pk.; Indian Castle; N. Fair Haven; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Albany; Brookview; **LI.** May–Sep.

E. needhami Alex. Sacandaga Pk.; Green L., Onondaga Co; Indian Castle; Ithaca; Cincinnatus. Je–Jl.

E. parva O.S. Johnstown; N. Fair Haven; Colden; Ithaca. Aug–Sep.

(Subgenus **GONEMPEDA** Alexander)

E. nyctops Alex. Fulton Co, Je.

(Subgenus **EMPEDA** Osten Sacken)

E. stigmatica O.S. Essex Co; Sacandaga Pk.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Trenton Falls; Helderbergs; Brookview. May–Sep.

MOLOPHILUS Curtis

(Subgenus **MOLOPHILUS** Curtis)

M. cramptoni Alex. Brookview, Rensselaer Co, Je.

M. forcipula O.S. Gloversville, Jl; Niagara Falls, Oct; E. Aurora, Aug.

M. fultonensis Alex. Fulton Co; Lower Cincinnatus; Taylor. Jl.

M. hirtipennis O.S. Adirondacks; Essex Co; Fulton Co; Green L.; Erie Co; Ithaca; Hudson R. valley. Je–Aug.

M. pubipennis O.S. Adirondacks; Sacandaga Pk.; Green L.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Brookview; Tarrytown. May–Aug.

M. quadrispinosus Alex. Ithaca, Je.

(Subgenus **DASYMOLOPHILUS** Goetghebuer)

M. ursinus O.S. Adirondacks; Fulton Co; Lower Cincinnatus; Brookview. Je–Jl.

TRIMICRA Osten Sacken

T. anomala O.S. Erie Co, May–Jl; New Rochelle.

HELOBIA St. Fargeau et Serville

H. hybrida Meig. Adirondacks; Fulton and Erie Counties; Ithaca; Canastota; Karner; Clinton Hgts.; **LI.** Mar–Aug.

GNOPHOMYIA Osten Sacken

G. tristissima O.S. Fulton and Erie Counties; Niagara Falls; Ithaca; Hudson R. valley; **LI.** May–Sep.

GONOMYIA Meigen

(Subgenus **LIPOPHLEPS** Bergroth)

G. alexanderi Jn. Sacandaga Pk.; Indian Castle; Johnson. Je–Aug.

G. manca O.S. Sacandaga Pk., Aug; Brookview, Je.

G. sacandaga Alex. Sacandaga Pk., Je–Aug.

(Subgenus **PTILOSTENA** Bergroth)

G. blanda O.S. Ithaca; Taylor; Trenton Falls; Brookview; Albany. Je–Jl.

G. mathesoni Alex. Essex Co; Indian Castle; Sacandaga Pk.; Ithaca; Taylor; Brookview. Je–Aug.

(Subgenus **GONOMYIA** Meigen)

G. cognatella O.S. Sacandaga Pk.; Indian Castle; Gowanda. Je–Aug.

G. florens Alex. Sacandaga Pk.; Indian Castle; McLean; Brookview. Je.

G. noveboracensis Alex. Sacandaga Pk. Je.

G. subcinerea O.S. Essex, Fulton, and Erie Counties; Green L.; Ithaca; Trenton Falls; Hudson R. valley. May–Aug.

G. sulphurella O.S. Peru; Fulton and Erie Counties; Ithaca; Trenton Falls; Tarrytown; **LI.** Je–Aug.

RHABDOMASTIX Skuse

(Subgenus **SACANDAGA** Alexander)

R. flava Alex. Adirondacks; Sacandaga Pk. Je–Jl.

TEUCHOLABIS Osten Sacken

T. complexa O.S. Trenton Falls, Je.

CRYPTOLABIS Osten Sacken

C. paradoxa O.S. Sacandaga Pk.; Ithaca; Taylor; Brookview. **Je–Jl.**

NEOLIMNOPHILA Alexander

N. ultima O.S. Hamilton and Fulton Counties; Rochester Jct.; Colden; Tompkins Co, Aug–Oct; Albany, May–Oct.

CLADURA Osten Sacken

(Subgenus **NEOCLADURA** Alexander)

C. delicatula Alex. Hamilton Co, Sep; Fulton Co; Mayfield Mt., Oct.

(Subgenus **CLADURA** Osten Sacken)

C. flavoferruginea O.S. Essex Co; Adirondacks; Fulton Co; Oswego; Manlius; Batavia; Niagara Falls; Ithaca; Trenton Falls; Highlands; **LI**; etc. Aug–Nov.

CHIONEA Dalman

C. gracilis Alex. Ithaca, Dec.
C. noveboracensis Alex. Ithaca, Feb.
C. primitiva Alex. Cascade; Owasco L. Nov.
C. valga Harr. Otto, Mar; Ithaca; L. Keuka, Manlius. Oct–Dec.

TOXORHINA Loew

T. muliebris O.S. Sacandaga Pk.; Hamburg; Ithaca; McLean; **LI.** Je–Jl.

Tribe HEXATOMINI

ULA Haliday

U. elegans O.S. Essex Co; Old Forge, Aug; Pinnacle Mt., Sep; Ithaca, May–Je.
U. paupera O.S. Johnstown; Erie Co; Ithaca. May–Je.

EPIPHRAGMA Osten Sacken

E. fascipennis Say. Adirondacks; Essex Co; Sacandaga Pk.; Green L.; Erie and Cattaraugus Counties; Ithaca; McLean; Hudson R. valley; **LI.** May–Je.
E. solatrix O.S. Sea Cliff, **LI,** Je.

DACTYLOLABIS Osten Sacken

D. cubitalis O.S. Rock City, Je; Ithaca, May.
D. montana O.S. Mt. Buell; Essex Co; Spring Br.; Little Valley; Ithaca; Little Falls; Helderbergs. May–Je.

PSEUDOLIMNOPHILA Alexander

P. contempta O.S. Sacandaga Pk., Jl.

P. inornata O.S. Adirondacks; Sacandaga Pk.; Green L.; Oswego; Ithaca. May–Aug.

P. luteipennis O.S. Indian Castle; Sacandaga Pk.; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Karner; New Baltimore; **LI.** May–Sep.

P. nigripleura A. & L. Fulton Co; Indian Castle; Ithaca; Taylor; Lower Cincinnatus; **LI.** May–Aug.

P. noveboracensis Alex. Sacandaga Pk., Je; Tompkins, Cortland, Albany, and Rockland Counties. Je–Jl.

P. toxoneura O.S. Adirondacks; Fulton Co; Ithaca; Karner; Helderbergs; Brookview. Je–Aug.

LIMNOPHILA Macquart

(Subgenus LASIOMASTIX Osten Sacken)

L. macrocera Say. Adirondacks; Sacandaga Pk.; Erie Co; Little Valley; Ithaca; Lower Cincinnatus; Taylor; Hudson R. valley; **LI.** Je–Aug.

L. subtenuicornis Alex. Tompkins Co, May–early Je; Helderbergs, Je; Brookview, Je.

L. tenuicornis O.S. Indian Castle; Gloversville; Ithaca; McLean; Brookview. May–Je.

(Subgenus IDIOPTERA Macquart)

L. fasciolata O.S. McLean; Albany. Je.

(Subgenus EPHELIA Schiner)

L. aprilina O.S. Essex and Fulton Counties; Wells; Erie Co; Ithaca; Lower Cincinnatus; Taylor; Karner. May–Jl.

L. johnsoni Alex. Fulton Co, Je; Ithaca, May.

L. solstitialis Alex. Fulton and Chenango Counties.

(Subgenus DICRANOPHRAGMA Osten Sacken)

L. fuscovaria O.S. Adirondacks; Fulton and Erie Counties; Portage; Ithaca; Lower Cincinnatus; Taylor; Hudson R. valley; **LI.** May–Aug.

(Subgenus EUTONIA Van der Wulp)

L. alleni Jn. Gloversville; Ithaca; Karner; Brookview. Je.

(Subgenus PHYLIDOREA Bigot)

L. adusta O.S. Adirondacks; Fulton Co; N. Fair Haven; Batavia; Erie Co; Ithaca; Manlius; Schenectady. May–Sep.

L. auripennis Alex. Adirondack Mts., Aug; Ithaca, May; Brookview, Je.

L. caudifera Alex. Hamilton Co, Je.

L. fumidicosta Alex. Ithaca, Je.

L. lutea Doane. McLean, May.

L. luteola Alex. Hamilton Co, Je.
L. neadusta Alex. Keene Val., Jl, *Not.*
L. similis Alex. Wells, Jl; Fulton Co, Je.

(Subgenus **LIMNOPHILA** Macquart)

L. albipes Leon. Fulton Co, Jl; Tarrytown, Je.
L. areolata O.S. Essex Co; Adirondacks; Fulton Co; Green L.; Erie Co; Ithaca; Albany; Brookview. May–Je.
L. brevifurca O.S. Adirondacks; Essex Co; Gloversville; Erie Co; Ithaca; Brookview. May–Je.
L. emmelina Alex. Mt. Buell, Je.
L. fraterna O.S. E. Aurora, May.
L. fratria O.S. Essex Co.
L. laricicola Alex. Fulton Co, Je.
L. niveitarsis O.S. Old Forge, Jl; Helderbergs, Je.
L. subcostata Alex. Indian Castle; Fulton Co; Ithaca; Brookview. May–early Je.
L. sylvia Alex. Fulton Co, Je; Brookview, Je.

(Subgenus **PRIONOLABIS** Osten Sacken)

L. munda O.S. Essex Co, Jl; Fulton Co; Cattaraugus Co, Je.
L. rufibasis O.S. Adirondacks; Peru; Essex, Fulton, and Erie Counties; Ithaca; Hudson R. valley. May–Je.
L. simplex Alex. Fulton Co, Je.

PILARIA Sintenis

P. edwardi Alex. Gloversville, Je.
P. imbecilla O.S. Sacandaga Pk.; Batavia; Buffalo; Gowanda; Trenton Falls; Tarrytown. Aug.
P. lenta O.S. Wells; Johnstown; Green L.; N. Fair Haven; Erie Co; Ithaca; Taylor; Lower Cincinnatus; Corinth; Brookview. May–Sep.
P. quadrata O.S. Sacandaga Pk.; Green L.; Batavia; Ithaca; Lower Cincinnatus; Albany; Tarrytown. May–Jl.
P. recondita O.S. Indian Castle; Sacandaga Pk.; Buffalo; Ithaca; McLean; Albany; Brookview; W. Nyack. Je.
P. stanwoodae Alex. Sacandaga Pk., Je; Brookview, Je.
P. tenuipes Say. Essex Co; Sacandaga Pk.; Albany; Brookview; W. Nyack.

ULOMORPHA Osten Sacken

U. pilosella O.S. Herkimer, Fulton, and Erie Counties; Ithaca; McLean; Taylor; Cincinnatus; Sharon Sps.; Brookview. Je–Jl.

ELEPHANTOMYIA Osten Sacken

E. westwoodi O.S. Adirondacks; Fulton and Erie Counties; Lower Cincinnatus: Catskills; Brookview, Je. Jl–Aug.

ATARBA Osten Sacken

A. picticornis O.S. Sacandaga Pk.; S. Wales; Taylor; Trenton Falls; **LI.** Je–Jl.

PENTHOPTERA Schiner

P. albitarsis O.S. Fulton and Erie Counties; Ithaca; Lower Cincinnatus; Brookview. Je–Sep.

ERIOCERA Macquart

E. brachycera O.S. Old Forge; Pinnacle Mt.; Erie Co; Lower Cincinnatus. Jl–Aug.

E. cinerea Alex. Fulton Co; Ithaca and vic. May–Je.

E. fuliginosa O.S. Erie Co, May (MCV).

E. fultonensis Alex. Fulton Co; Ithaca. Je.

E. longicornis Wlk. Fulton Co; Dolgeville; N. Evans; Ithaca; Trenton Falls; Albany. May.

E. spinosa O.S. Sacandaga; Ithaca; Trenton Falls; Lower Cincinnatus; Brookview. May–Aug.

E. tristis Alex. Ithaca, Aug.

HEXATOMA Latreille

H. megacera O.S. Fulton Co; Ithaca and vic. May–Je.

Tribe PEDICIINI

ADELPHOMYIA Bergroth

A. americana Alex. Wells; Fulton Co; Ithaca; Taylor. Jl–Sep.

A. cayuga Alex. Ithaca, Aug.

A. minuta Alex. Indian Castle; Sacandaga Pk.; Ithaca; McLean; Brookview. May–Je.

PEDICIA Latreille

P. albivitta Wlk. Adirondacks; Fulton, Erie, and Broome Counties; Ithaca; Lower Cincinnatus; Taylor; Manlius; Hudson R. valley. May–Sep.

P. contermina Wlk. Essex Co; Ithaca and vic. May–early Je.

TRICYPHONA Zetterstedt

T. auripennis O.S. Indian Castle, Je.

T. autumnalis Alex. Adirondacks; Essex and Fulton Counties; N. Fair Haven; Grand I. Late Jl–Sep.

T. calcar O.S. Essex and Fulton Counties; Newport; Mt. Marcy, Jl; Erie and Cattaraugus Counties; McLean. May–Je.

T. inconstans O.S. Adirondacks; Essex and Fulton Counties; Rochester; Batavia; Erie Co; Portageville; Ithaca; Lower Cincinnatus; Taylor; Manlius; Hudson R. valley; Claverack; **LI.** May–Oct.

T. macateei Alex. **LI:** Wyandanch, May.

T. paludicola Alex. McLean, May.

T. vernalis O.S. Essex and Fulton Counties; Indian Castle; Ithaca; **LI.** Ap–Je.

RHAPHIDOLABINA Alexander

R. flaveola O.S. Adirondacks; Fulton Co; Hamburg; Ithaca; Lower Cincinnatus; Brookview. May–Aug.

RHAPHIDOLABIS Osten Sacken

R. cayuga Alex. Fulton Co, Aug–Sep; Ithaca, Ap–May.
R. forceps Alex. Helderbergs, Je; Brookview, Je.
R. rubescens Alex. Gloversville, Je.
R. tenuipes O.S. Adirondacks; Gloversville; Erie Co; Little Valley; Ithaca; Saratoga; Hudson R. valley. May–Aug.

(Subgenus **PLECTROMYIA** Osten Sacken)

R. confusa Alex. (previously recorded as *modesta* O.S.). Fulton, Erie, and Albany Counties; Holland, May; Helderbergs, Je.

SUBFAMILY CYLINDROTOMINAE

CYLINDROTOMA Macquart

C. americana O.S. Essex Co, Mt. Marcy, Jl.
C. tarsalis Jn. Fulton Co, Je–Aug; Herkimer Co, Je.

LIOGMA Osten Sacken

L. nodicornis O.S. Essex Co; Sacandaga Pk.; Green L.; Indian Castle; Erie Co; Ithaca; Brookview; Tarrytown. May–Je.

PHALACROCERA Schiner

P. neoxena Alex. N. Fairhaven, May.
P. tipulina O.S. Essex Co, Jl; Fulton, Je–Aug; Old Forge; Tompkins Co, Jl.

SUBFAMILY TIPULINAE

DOLICHOPEZA Curtis

D. americana Ndm. Essex and Fulton Counties, Je; Old Forge, Aug; Little Valley, Je; **LI**: Flushing, Je.

OROPEZA Needham

O. albipes Jn. Old Forge; Fulton and Erie Counties; Four Mile; Taylor; Tarrytown; **LI.** Je–Aug.
O. obscura Jn. Fulton, Erie, and Cattaraugus Counties; Lower Cincinnatus; Taylor; Hudson R. valley. Je–Aug.
O. sayi Jn. Old Forge; Erie Co; Niagara Falls; Ithaca. Je–Aug.
O. subalbipes Jn. Erie Co, Jl; Tarrytown, Je.
O. venosa Jn. Essex Co; Fulton Co; Indian Castle; S. Wales; Little Valley; Lower Cincinnatus; Brookview. Je–Jl.

TANYPTERA Latreille

T. frontalis O.S. Essex and Fulton Counties; Rock City; Ithaca. May–Je.
T. fumipennis O.S. Colden; Ithaca, May.
T. topazina O.S. Ithaca; Lancaster; Brookview, Je. May.

CTENOPHORA Meigen

C. apicata O. S. Mt. Buell, Je; **LI**, Jl.

LONGURIO Loew

L. testaceus Lw. Gloversville; Lower Cincinnatus; **LI.** Je–Jl.

PRIONOCERA Loew

P. fuscipennis Lw. Fulton Co; E. Aurora; Ithaca; Albany; Brookview. Je–Aug.

NEPHROTOMA Meigen

N. brevioricornis Doane. Sacandaga Pk., Je.
N. calinota Dietz. Fulton Co, Je.
N. eucera Lw. Essex Co; Sacandaga Pk.; Ithaca; Manlius; **LI.** Je–Jl.
N. euceroides Alex. Fulton Co; Sport I., Sacandaga R., Je; Brookview, Je.
N. ferruginea Fab. Adirondacks; Essex and Fulton Counties; Buffalo and vic.; Ithaca; Syracuse, *Blkm* (Hine); Hudson R. valley; **LI.** May–Sep.
N. gracilicornis Lw. Manlius, Aug.
N. incurva Lw. Adirondacks; Essex Co; Sacandaga Pk.; Batavia; Erie Co; Niagara Falls; Taylor; Ithaca; Manlius; Hudson R. valley. May–Aug.
N. lugens Lw. Adirondacks; Sacandaga Pk.; Batavia; Rock City; L. Keuka; Ithaca; Karner; Brookview. May–Jl.
N. macrocera Say. Sacandaga Pk.; Tarrytown. Je.
N. pedunculata Lw. Adirondacks; Sacandaga Pk.; Taylor; Batavia; Four Mile; **LI.** Je–Jl.
N. polymera Lw. Essex Co; Sacandaga Pk.; Niagara Falls; Ithaca; Brookview. Je.
N. sodalis Lw. Baldwinsville, Je.
N. tenuis Lw. Essex Co; Sacandaga Pk.; Batavia; Erie Co; Rock City; Ithaca; Cincinnatus; Hudson R. valley. Je–Aug.
N. virescens Lw. Fulton Co, Aug; Tompkins Co, Jl.
N. xanthostigma Lw. Erie Co, Je–Sep; Sullivan; **LI.** Je–Aug.

TIPULA Linnaeus

(Subgenus **CINCTOTIPULA** Alexander)

T. algonquin Alex. Essex Co, Je–Aug.
T. unimaculata Lw. New Russia; Hamilton and Fulton Counties; Sodus; Ithaca; Manlius. Aug–Sep.

(Subgenus **ODONTOTIPULA** Alexander)

T. unifasciata Lw. Norton's Landing; Manlius. Aug.

(Subgenus **TRICHOTIPULA** Alexander)

T. oropezoides Jn. Indian Castle; Fulton Co; Hamburg; Ithaca and vic. May–Je.

(Subgenus **TIPULA** Linnaeus)

T. abdominalis Say. Adirondacks; Essex Co; Gloversville; Rochester Jct.; Gowanda, etc., May–Sep; Portage; Ithaca; Arkville; Sharon Sps.; Hudson R. valley; **LI.**

T. afflicta Dietz. S. Wales, Jl.

T. angustipennis Lw. Essex Co; Sacandaga Pk.; Indian Castle; Holland; Ithaca; Albany and vic. Ap–Je.

T. annulicornis Say. **LI:** Riverhead, Jl.

T. apicalis Lw. Essex Co; Sacandaga; Ithaca and vic.; Hudson R. valley. May–Jl.

T. bella Lw. Sacandaga Pk.; Green L.; N. Fair Haven; Honeoye Falls; Batavia; Erie Co; Ithaca; Hudson R. valley; New Baltimore; **LI.** May–Sep.

T. bicornis Fbs. Potsdam; Sacandaga Pk.; Erie Co, May–Je; Ithaca and vic.; West Pt.

T. caloptera Lw. Gloversville; Sacandaga Pk.; Indian Castle; Erie Co; Niagara Falls; Wyoming; Ithaca and vic. May–Je. **LI,** Je–Sep.

T. cayuga Alex. Essex Co; Indian Castle; Gloversville; Ithaca; Brookview. May–Je.

T. centralis Lw. Mt. McIntyre, Jl; Indian Ladder, Helderberg Mts., Albany Co, Je 19, ♂.

T. collaris Say. Gloversville; Indian Castle; Erie Co; Little Valley; Albany; Brookview; **LI.** May–Jl.

T. cunctans Say. Alexandria Bay; N. Fair Haven; Clifton Sps.; Batavia; Niagara Falls; Buffalo and vic.; Owego; Ithaca and vic.; Brooklyn. Sep–Oct.

T. dejecta Wlk. Essex Co; Gloversville; Erie Co; Ithaca; Albany; Karner; **LI.** Ap–May.

T. eluta Lw. Essex Co; Sacandaga Pk.; Indian Castle; Erie Co; Ithaca; Rhinebeck. May–Aug.

T. fragilis Lw. Adirondacks; Gloversville; Erie Co; Ithaca; New Baltimore. Sep–Oct.

T. fuliginosa Say. Sacandaga Pk.; Indian Castle; Mt. Buell; Erie Co; Rock City; Portage; Conesus L.; Ithaca and vic.; Helderbergs; Brookview. Je–Jl.

T. fultonensis Alex. Essex and Fulton Counties. Je.

T. georgiana Alex. New Rochelle.

T. grata Lw. Old Forge, Je; Buffalo, Aug.

T. hebes Lw. Old Forge; Warren and Fulton Counties; Batavia; Erie Co; Ithaca Taylor; Cincinnatus; **LI.** Je–Aug.

T. helderbergensis Alex. Wells; Indian Ladder, Helderberg Mts. Jl.

T. hermannia Alex. Essex and Fulton Counties; Adirondacks; Niagara Falls; Ithaca; Taylor; Cincinnatus; Sharon Sps.; New Baltimore; Hudson R. valley. Je–Aug.

T. hirsuta Doane. Mayfield Mt., Fulton Co, Je.

T. ignobilis Lw. Ithaca; Helderbergs; Catskills. May–Jl.

T. iroquois Alex. Essex and Fulton Counties; Indian Castle; Portage; Ithaca and vic. May–Je.

T. latipennis Lw. Sacandaga Pk.; Batavia; Grand I., Erie Co. Je–early Aug.

T. longiventris Lw. Fulton Co; E. Aurora; **LI.** May–Aug.

T. macrolabis Lw. Essex Co; Mt. Buell; Indian Castle; Helderbergs. Je–Jl.

T. manahatta Alex. **LI:** Yaphank, Sep.

T. margarita Alex. Ithaca, Je; Helderbergs, Je.

T. mingwe Alex. Hamilton Co; Sacandaga Pk.; Sodus; Batavia; Ithaca; Manlius; Sharon Sps. Jl–Sep.

T. monticola Alex. Fulton Co; Indian Castle; Rock City; Ithaca and vic.; Wells, Jl. Je.

T. nobilis Lw. Essex and Fulton Counties; Wyoming Co; McLean; Albany Co. Je.

T. noveboracensis Alex. Essex Co, May; Fulton Co, Je; Tompkins Co, May; Albany Co, May.

T. parshleyi Alex. Axton, Je; Essex Co.

T. penobscot Alex. Mt. Buell, Je.

T. perlongipes Jn. Fulton Co; **LI:** Flushing, Je.

T. sackeniana Alex. Ithaca, Aug.

T. sayi Alex. Adirondacks; Essex Co; Gloversville; N. Fair Haven; Batavia; Erie Co; Hudson R. val. Jl–Sep.

T. senega Alex. Essex, Fulton, and Erie Counties; Ithaca and vic.; Helderbergs. May–Je.

T. serta Lw. Gloversville; Erie Co; Ithaca; Brookview. May–Je.

T. strepens Lw. Sacandaga Pk.; Indian Castle; Niagara Falls; Ithaca; Cincinnatus; Taylor; Corinth; Palisades. May–Jl.

T. submaculata Lw. Essex and Fulton Counties; Batavia; N. Evans; Four Mile; Ithaca; Cincinnatus; Corinth; Albany Co. Je–Jl.

T. sulphurea Doane. Fulton Co, Je; Green L., Je.

T. taughannock Alex. Fulton Co; Taughannock Falls; Helderbergs. May–Je.

T. tephrocephala Lw. Adirondacks; Sacandaga Pk.; Batavia; Ithaca and vic.; Hudson R. valley. May–Je.

T. tricolor Fab. Gloversville; Ithaca; Batavia; Cincinnatus; Niverville; **LI.** Late May–Sep.

T. trivittata Say. Sacandaga Pk.; Batavia; Erie Co; Ithaca; Cortland Co; Hudson R. valley. May–Je.

T. ultima Alex. Essex Co; Adirondacks; Gloversville; N. Fair Haven; Batavia; Erie Co; Ithaca; Delhi; Peekskill; **LI.** Sep.

T. umbrosa Lw. Sacandaga Pk.; Adirondacks; Ithaca. Jl–Aug.

T. valida Lw. Fulton Co; Green L.; Indian Castle; Erie Co; Rock City; Ithaca; Corinth; Helderbergs. Late May–early Jl.

T. vicina Dietz. Erie Co, late May–early Je.

FAMILY **DIXIDAE**

DIXA Meigen

D. centralis Lw. "NY" (Lw), type; Elizabethtown, Jl (Garr–NYS); Karner, Nov (Garr–NYS).

D. clavata Lw. Sulphur Sp. Jct., Sep (Joh); Elizabethtown, Je, Aug (Garr–NYS); Speculator, Jl (Garr–NYS); Sodus Pt., Aug (Garr); Springville, Protection, Je (MCV); Karner, Nov, Albany, Oct (Garr–NYS).

D. cornuta Joh. Ithaca, Aug–Oct (Joh); McLean, Oct (Joh), holotype.

D. fusca Lw. "NY" (Lw), type; Colden, May, Aug (MCV); Ithaca, Je (Joh).

D. modesta Joh. Wells (Garr–NYS); Elizabethtown, Je (Garr–NYS); Ithaca, Ap–Oct (Joh), holotype; McLean, May (Joh).

D. similis Joh. Ithaca, Aug (Joh), holotype; Albany, May (Garr–NYS).

D. terna Lw. "NY" (Lw), type; Wells, Jl (Garr–NYS); Hamburg, Colden, May (MCV); Ithaca (Joh).

FAMILY **CULICIDAE**

ROBERT MATHESON

SUBFAMILY **CHAOBORINAE**

(*Corethrinae* auct.)

EUCORETHRA Underwood

(*Pelorempis* Johannsen)

E. underwoodi Underwood. Saranac L., Je, *Ndm*; Plattsburg, Aug (Dyar); Elizabethtown, Je (F&Y); Ithaca, Ap–Oct (*Mat*); Utica, Je, *Sib.*

CORETHRA Meigen

(*Mochlonyx* Loew)

C. culiciformis DeG. (*karnerensis* Felt, *linteri* Felt). Elizabethtown, May–Aug (F&Y); Plattsburg, Aug (Dyar); Old Forge, Jl (F&Y); Karner, Je (F&Y); Ithaca, Ringwood, May (Mat).

C. cinctipes Coq. Elizabethtown, Je (F&Y); Ringwood, May–Je (Mat); Ithaca, May (Mat); Delmar, Karner, May (F&Y).

C. fuliginosus Felt. Big Moose, Big Chief, Je (F&Y); Nassau, Je (F&Y).

CHAOBORUS Lichtenstein

(*Sayomyia* Coq.; *Corethra* auct.)

C. crystallina DeG. (*rotundifolia* Felt). Ringwood, Je (Mat); Ithaca, Sep (Mat); Karner, Jl–Aug (F&Y).

C. americanus Joh. (*hudsoni* Felt). Saranac Inn, Je (Joh); Elizabethtown, Jl (F&Y); Old Forge, Jl (F&Y); Karner, Je (F&Y); Poughkeepsie, Je (F&Y); **SI**, Ap (Mat).

C. albipes Joh. Clifton Sps., Aug–Sep (F&Y); Ithaca, Sep (Joh); Bath-on-Hudson, Je (F&Y).

C. trivittatus Lw. Elizabethtown, Je–Aug (F&Y).

C. punctipennis Say. Old Forge, Je–Aug (F&Y); Long L., Aug (F&Y); Ithaca, Sep (Mat); McLean, Aug (Mat); Poughkeepsie, Je (F&Y).

SUBFAMILY CULICINAE

ANOPHELES Meigen

A. barberi Coq. Ithaca, Sep, 1923 (Mat).

A. crucians Wied. **LI:** Bellport, Oct (Dyar).

A. maculipennis Meig. Raybrook, Buttermilk Falls on Raquette R., Franklin Co, and Old Forge, Aug (Mat&Snn).

A. punctipennis Say. Elizabethtown, Je (F&Y); Newport, Aug (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (F&Y); Clifton Sps., Aug (F&Y); Erie Co, Sep–Oct (MCV); Ithaca, Jan–Dec (Joh, Mat); McLean, Jl (Mat); Freeville, Jl (Mat); Onteora Club, Ap (How); Albany, Aug–Sep (F&Y); Nassau, Sep (F&Y); Rensselaer, Jl (F&Y); Poughkeepsie, May (F&Y); White Plains (Beq); Pine I., Sep (F&Y); Ramsey, Je (Mat); **SI,** Jl (Mat); **LI:** Oyster Bay, Glen Cove, Jl (F&Y).

A. quadrimaculatus Say. Old Forge, Aug (F&Y); Wells, Jl (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Je–Aug (F&Y); Clifton Sps., Aug (F&Y); Ithaca, Je–Nov (Joh, Mat); McLean, Aug (Mat); Albany, Aug–Sep (F&Y); S. Salem, Je (F&Y); **SI,** Sep (Mat); **LI:** Bellport, Aug (Dyar).

A. walkeri Theo. N. Fair Haven, Je–Aug (Mat & Snn); Sodus Pt., Aug–Sep (Mat); Duck L., Jl (Mat); Dryden L., Jl (Mat).

WYEOMYIA Theobald

W. smithii Coq. Saranac Inn, Jl (F&Y); Tupper L., Aug (Dyar); Old Forge, Je–Jl (F&Y); E. Crooked Pond, Jl (F&Y); Big Moose, Je (F&Y); Duck L., Jl (Mat); McLean, Je–Aug (Joh, Mat).

CULEX Linnaeus

C. pipiens L. Sodus Pt., Sep (F&Y); Erie Co, Jl–Oct (MCV); Schuyler, Aug (F&Y); Ithaca, all year (Joh, Mat); Albany, Je–Sep (F&Y); Karner, Oct (F&Y); Voorheesville, Aug, *Leon* (Mat); Clinton Hgts., Sep (F&Y); Nassau, Aug (F&Y); **SI,** Jl (Ds); **LI:** Baldwin, May (Ds); Sheepshead Bay, Je–Sep (F&Y).

C. salinarius Coq. E. Sodus, May, Westfield, Aug, Karner, May, Nassau, Sep, E. Schodack, May, *F&Y* (Mat); **LI:** Oyster Bay, Jl, *F&Y* (Mat).

C. territans Wlk. (*restuans* Theo.). Elizabethtown, Je–Jl (F&Y); Saranac Inn, Jl (F&Y); Old Forge, Aug (F&Y); Tupper L., Aug (Dyar); Newport, Aug (F&Y); Sodus, Aug (F&Y); Sodus Pt., Je–Sep (F&Y); Syracuse, Jl (F&Y); Niagara Falls, Aug (F&Y); Westfield, Aug (F&Y); Ithaca, Je–Aug (Joh, Mat); Onteora Club (How); Mohawk, Jl (F&Y); Albany, May–Sep (F&Y); Karner, May–Jl (F&Y); Clinton Hgts., Sep (F&Y); Nassau (F&Y); Binnewater, May–Aug (F&Y); Poughkeepsie, Je (F&Y); **LI:** Sheepshead Bay, Aug (F&Y).

C. apicalis Adams (*territans* auct. not Wlk., *saxatilis* Grossbeck, *testaceus* Dyar not Wulp). Big Moose, Jl (F&Y); Newport, Aug (F&Y); Old Forge, Jl (F&Y); Tupper L., Aug (Dyar); Elizabethtown, Jl (F&Y); Sodus Pt., Aug (F&Y); N. Fair Haven, Jl–Aug (Joh, Mat); Schuyler, Aug (F&Y); Ithaca,

Je–Oct (Joh, Mat); McLean, Jl–Aug (Mat); Ringwood, Je–Jl (Mat); Albany, May–Sep (F&Y); Karner, May–Sep (F&Y); Bath, Je–Jl (F&Y); Clifton Sps., Aug (F&Y); Nassau, Sep (F&Y); Poughkeepsie, May–Je (F&Y); **LI**: Bellport, Aug (Dyar).

URANOTAENIA Lynch Arribálzaga

U. sapphirinus O.S. Sodus Pt., Aug (F&Y); Ithaca, Aug–Oct (Joh); Albany, Aug (F&Y); Greenbush, Aug (F&Y); **LI**: Brooklyn (F&Y); Bellport, Sep (Dyar).

THEOBALDIA Neveu-Lemaire

(*Culiseta* Felt)

T. dyari Coq. (*brittoni* Felt). Elizabethtown, May–Je (F&Y); Big Moose, Je (F&Y); Tupper L., Aug (Dyar); Ithaca, May–Je (Mat); Ringwood, Je (Mat); McLean, Je–Jl (Mat).

T. impatiens Wlk. (*absorbrinus* Felt). Elizabethtown, Jl–Aug (F&Y); foot of Cliff Mt., Essex Co (Beq); Saranac Inn, Jl (F&Y); Mt. Marcy, Jl, *Cy* (Mat); Tupper L. (Dyar).

T. inornatus Will. (*magnipennis* Felt). Saranac Inn, Aug (F&Y); Old Forge, Je (F&Y); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (F&Y); Ithaca, Ap–Nov (Mat).

T. melanurus Coq. Tupper L., Aug (Dyar); Duck L., Aug (Mat).

TAENIORHYNCHUS Lynch Arribálzaga

(*Mansonia* Blanchard)

T. perturbans Wlk. Old Forge, Jl (F&Y); N. Fair Haven, Je–Aug (Mat); Sodus Pt., Je–Aug (F&Y); Sodus, Jl (F&Y); LeRoy, Je (F&Y); Dryden L., Je–Aug (Mat); Ithaca, Jl–Aug (Mat), Je (Joh).

PSOROPHORA Robineau-Desvoidy

P. ciliata Fab. Valcour I. (Mat–NYS); Sodus Pt., Aug (F&Y), Jl–Sep (Mat); Duck L., Aug, *West* (Mat); N. Evans, Aug (MCV); Ithaca, Aug–Sep (Joh, Mat); Albany, Aug–Sep (F&Y); Karner, Je–Jl (F&Y); Clifton Sps., Aug (F&Y); Arlington, Jl (F&Y); Warwick, Jl (F&Y); **SI**, Jl–Aug (Ds); **LI**: E. Quogue, Aug, *Ds* (Mat); Sheepshead Bay, Jl–Aug, *Cy* (Mat).

P. columbiae D. & K. **LI**: Cold Sp. Harb., Jl (Lutz).

P. sayi D. & K. Poughkeepsie, Aug (F&Y); **LI**: Sheepshead Bay, Jl, *Cy* (Mat).

AEDES Meigen

A. abserratus (F&Y). Plattsburg, Ap (D&H); Elizabethtown, Je (F&Y); McLean, Ringwood, May (Mat); Onteora Club, Je (How); Nassau, May (F&Y); Chapel Pond, Je, *Leon* (Mat).

A. atlanticus D. & K. **SI** (F&Y).

A. atropalpus Coq. Plattsburg, Jl–Aug (Mat–NYS); Old Forge, Aug (Mat); McLean, Jl (Mat).

A. aurifer Coq. Elizabethtown, Je (F&Y); Baldwinsville, May (F&Y); N. Fair Haven, Je–Jl (Mat); Sodus Pt., Je (F&Y); Ringwood, May (Mat).

A. canadensis Theo. Keene Val., Je (F&Y); Elizabethtown, May–Jl (F&Y); Saranac Inn, Jl (F&Y); E. Crooked Pond, Jl (F&Y); Old Forge, Je–Aug (F&Y); Big Moose, Big Chief, Je (F&Y); Fulton Chain, Aug (F&Y); Newport, Je (F&Y); Herkimer, Aug (Mat); W. Winfield, Je (Mat); N. Fair Haven, Jl (Mat); Sodus Pt., Aug (Mat); Duck L., Je (Mat); Ithaca, May–Aug (Joh, Mat); McLean, Ringwood, May–Aug (Mat); Onteora Club, May–Je (How); Schodack, May (F&Y); Delmar, May (F&Y); Clarksville, Aug (F&Y); Karner, May–Sep (F&Y); Rensselaer, May (F&Y); Nassau, May–Je (F&Y); Poughkeepsie, Jl (F&Y); **SI**, Ap (Mat), Je–Sep, *Ds* (Mat).

A. cantator Coq. **SI**, Aug (F&Y), Sep (Mat); **LI**: Brooklyn, Cold Sp. Harb., May (F&Y); Sheepshead Bay, Je–Aug (F&Y); Riverhead, Sep (Mat); Woodmere, Sep (F&Y).

A. cinereoborealis F. & Y. Elizabethtown, May–Je (F&Y); Old Forge, Je (F&Y), Aug (Mat); Herkimer, Aug (Mat); Ithaca, May (Joh, Mat); Ringwood, May (Mat); Albany, May (F&Y); Karner, May (F&Y); Nassau, May (F&Y); Delmar, May (F&Y); Normanskill, May (F&Y).

A. cinereus Meig. (*fuscus* O.S.). Elizabethtown, Je–Jl (F&Y); Old Forge, Jl (F&Y); Big Moose, Je (F&Y); Duck L., Je (Mat); N. Fair Haven, Je (Mat); Sodus Pt., Je, Aug (F&Y); Buffalo, Sep–Nov (EPV); Ithaca, May–Je (Joh, Mat); Ringwood, May (Mat); McLean, May–Aug (Mat); Karner, May–Je (F&Y); Bath, May (F&Y); Nassau, May (F&Y); Poughkeepsie, May (F&Y).

A. diantaeus D. & K. Ringwood, Je (Mat).

A. dorsalis Meig. (*curriei* Coq., *onondagensis* Felt, *lativitattus* Coq., *quaylei* D. & K.). Syracuse, May–Sep (F&Y); Baldwinsville, May (F&Y); Ithaca, May, Jl–Aug (Joh, Mat); Albany, Aug–Sep (F&Y).

A. excrucians Wlk. (*abfitchii* Felt, *siphonalis* Grossbeck, *sansoni* D. & K., *euedes* H. D. & K.). Elizabethtown, May (F&Y); Saranac Inn, Jl (F&Y); Plattsburg, Ap (Dyar); L. George, Aug (Mat); Old Forge, Je–Jl (F&Y); Herkimer, Aug (Mat); N. Fair Haven, Jl (Mat); Olcott, Je (Mat); Salamanca, Je (Mat); Watkins, May (Dyar); Ithaca, May–Aug (Joh, Mat); McLean, May–Jl (Mat); Ringwood, May–Aug (Mat); Onteora Club, Jl (How); Trenton Falls, Je (Mat); Albany, May–Je (F&Y); Rensselaer, May (F&Y); Karner, May (F&Y); Delmar, May (F&Y); Voorheesville, Jl, *Leon* (Mat); Victory Mills, May, *Leon* (Mat); **LI**: Forest Pk., Je (F&Y); Sheepshead Bay, Je–Jl, *Cy* (Mat).

A. fitchii F. & Y. Elizabethtown, May (F&Y); Plattsburg, Ap (Dyar); Keene Val., Aug (F&Y); Newport, Je–Aug (F&Y); Wells, Jl (Mat); Herkimer, Aug (Mat); Syracuse, Jl (Mat); Sodus Pt., Je (F&Y); Salamanca, Je (Mat); Ithaca, Ap–Aug (Mat); McLean, Ringwood, May–Aug (Mat); Watkins, May (Dyar); Atwater, Jl (Mat); Trenton Falls, Je (Mat); Victory Mills, May, *Leon* (Mat); Meadowdale, May, *Leon* (Mat); Karner, May (F&Y); Delmar, May (F&Y); Nassau, May–Je (F&Y); Niverville, Je (F&Y); Onteora Club, Je–Aug (How); N. Salem, Jl, *Leon* (Mat).

A. hirsuteron Theo. (*pretans* Grossbeck, *aestivalis* Dyar). Ithaca, May–Sep (Mat); Karner, Je (F&Y); Easton, May, *Leon* (Mat); **LI**: Sheepshead Bay, Jl (F&Y).

A. impiger Wlk. (*decticus* H. D. & K.). Elizabethtown, Ap (Dyar); Plattsburg, Ap (Dyar).

A. intrudens Dyar (*impiger* H. D. & K. nec Wlk.). Elizabethtown, May–Jl (F&Y); Big Moose, Je (F&Y); Old Forge, Je, Aug (F&Y); Saranac Inn, Jl (F&Y); Duck L., Je (Mat); Sodus Pt., Jl (Mat); Ithaca, Jl, Sep (Mat); Ringwood,

May–Sep (Mat); McLean, Jl (Mat); Albany, May (F&Y); Normanskill, May (F&Y); Karner, May–Je (F&Y); Delmar, May (F&Y); Nassau, May–Je (F&Y); Chapel Pond, Je, *Leon* (Mat); Onteora Club, Je (How).

A. lazarensis F. & Y. Elizabethtown, May–Jl (F&Y); Old Forge, Je (F&Y); Big Moose, Je (F&Y); Big Chief, Je (Mat); Plattsburg, Ap (Dyar); Saranac Inn, Jl (F&Y); McLean, Ringwood, May (Mat); Delmar, Aug (F&Y); Nassau, May (F&Y).

A. punctor Kby. (*auroides* Felt, *centrotus* H. D. & K.). Peru, Je (Mat); Elizabethtown, May–Jl (F&Y); Big Chief, Big Moose, Je (F&Y); Saranac Inn, Jl (F&Y); Old Forge, Je–Jl (F&Y); Duck L., Je (Mat); N. Fair Haven, Jl (Mat); Salamanca, Je (Mat); Ithaca, May–Aug (Mat); Ringwood, May–Jl (Mat); McLean, May (Mat); Thomson, May, *Leon* (Mat); Karner, May–Je (F&Y); Voorheesville, May, *Leon* (Mat); Meadowdale, May, *Leon* (Mat); Nassau, May (F&Y); Chapel Pond, Je, *Leon* (Mat); Thacher Pk., May, *Leon* (Mat).

A. sollicitans Wlk. Syracuse, Jl–Aug (F&Y); **SI:** Jl–Aug (F&Y, Ds); Richmond, Je (Mat); **LI:** Woodmere, Sep (F&Y); Sheepshead Bay, Forest Pk., Je–Sep (F&Y); Wyandanch, Jl (Ds); Riverhead, Je, Sep (Mat); Farmingdale, Jl (Mat); Bellport (Dyar); Yaphank, Oct (Ds); Hog Pt., Aug (F&Y).

A. stimulans Wlk. (*subcantans* Felt). Plattsburg, Ap (Dyar); Newport, Je (F&Y); Piseco L., Aug (Mat); Duck L., Je (Mat); Sodus Pt., Je (F&Y); Westfield, Je (Mat); Atwater, Jl (Mat); Ithaca, McLean, Ringwood, Ap–Aug (Mat); Karner, May–Aug (F&Y); Delmar, May (F&Y); Nassau, May–Je (F&Y); Niverville, Je (F&Y); Poughkeepsie, May (F&Y); **SI,** May–Je (Ds).

A. taeniorhynchus Wied. NYC, Jl (Ds); **SI,** Aug (Ds); **LI:** Half Way Hollow Hills, Jl (Ds); Sheepshead Bay, Jl–Aug (F&Y); Hog Pt., Aug (F&Y); Forest Pk., Je (F&Y); Bellport, Aug (Dyar); Babylon, Sag Harb., Jl (Dyar).

A. triseriatus Say. Elizabethtown, Jl–Aug (F&Y); Old Forge, Aug (Mat); L. Mahopac, Jl (F&Y); N. Fair Haven, Je–Jl (Mat); Erie Co, Je–Aug (MCV); Ithaca, May–Sep (Joh, Mat); McLean, Jl (Mat); Michigan Hollow, Jl (Mat); Albany, Aug (F&Y); Karner, May (F&Y); Ramapo, Oct (Ds); **LI:** Wyandanch, Jl (Mat); Yaphank, Half Way Hollow Hills, Jl (Ds); Cold Sp. Harb., Je (F&Y).

A. trivittatus Coq. (*inconspicuus* Grossbeck, *angustivittatus* D. & K.). Ithaca, Taughannock Falls, Sep (Mat); Albany, Je (F&Y); Karner, Je (F&Y); Bath, Jl (F&Y).

A. vexans Meig. (*sylvestris* Theo.). Elizabethtown, Jl (F&Y); Old Forge, Jl (F&Y); Big Moose, Jl (F&Y); Tupper L., Aug (Dyar); Newport, Je, Aug (F&Y); Wells, Jl (Mat); Syracuse, Jl (F&Y); Sodus Pt., Je–Aug (F&Y); Erie Co, May–Aug (MCV); Ithaca, May–Sep (Joh,Mat); McLean, Sep (Mat); Albany, May–Je (F&Y); Karner, Je–Sep (F&Y); Nassau, Je, Aug–Sep (F&Y); Clifton Hgts., May, Sep (F&Y); Rensselaer, Jl (F&Y); Voorheesville, Jl–Aug, *Leon* (Mat); Onteora Club (How); Poughkeepsie, Je (F&Y); Phoenicia, Aug (F&Y); Pine I., Sep (F&Y); **SI:** Je (Ds); Clove Valley, Jl (F&Y); **LI:** Hog Pt., Aug (F&Y); Riverhead, Sep (Ds); Sheepshead Bay, Je–Aug (F&Y).

FAMILY **PSYCHODIDAE**

PERICOMA Walker

P. albitarsis Bks. S. Wales, Je–Jl (MCV); Ithaca, Ap–Jl.

P. basalis Bks. Rensselaer, May; Nassau, Je (NYS).

PSYCHODA Latreille

P. alternata Say. Buffalo, Sep–Oct (MCV); Ithaca, Aug, Dec (Joh); Nassau, Sep; **LI**: Sea Cliff, Jl (Bks).
P. aterrima Bks. Ithaca (Bks).
P. bicolor Bks. **LI**: Sea Cliff (Bks).
P. marginalis Bks. Erie Co, Jl (MCV); **LI**: Sea Cliff, Je (Bks).
P. nitida Bks. Erie Co, May–Aug (MCV).
P. opposita Bks. Gowanda, Je (MCV).
P. phalaeroides L. (*cinerea* Bks., *longifringa* Has., *minuta* Bks.). Hamburg, Oct, N. Evans, May, Erie, Je–Aug (MCV); Ithaca, Je, Aug (Joh); Albany, May; Nassau, Sep (NYS); Poughkeepsie, Je (NYS); **LI**: Sea Cliff (Bks).
P. slossoni Will. Watkins Glen (Will); Ithaca, Je, Aug (Bks).
P. superba Bks. Colden, May, Jl, Buffalo, Oct (MCV); **LI**: Sea Cliff, Je (Bks).

MARUINA Müller

M. nigra Bks. Gowanda, Je, Little Valley, May (MCV); **LI**: Sea Cliff (Bks).

FAMILY CHIRONOMIDAE

SUBFAMILY CERATOPOGONINAE

CULICOIDES Latreille

C. biguttatus Coq. Ithaca, Jl 29 (Joh); McLean, Jl, *Sib* (Joh).
C. guttipennis Coq. Ithaca, Jl (Mall); McLean, Je, *Sib* (Joh).
C. sanguisuga Coq. Ithaca, Je–Jl, Nov (Mall); McLean, *Claas* (Joh).
C. stellifer Coq. Speculator, Je (Hoff).
C. variipennis Coq. Ithaca, Je (Joh).
C. venustus Hoff. Nassau, Je (Hoff).

CERATOPOGON Meigen

C. culicoidithorax Hoff. Karner, May (Hoff).
C. fuscinervis Mall. Ithaca, Freeville, etc., Tompkins Co, Jl (Mall); McLean, Je, *Sib* (Joh).
C. fusculus Coq. Ithaca, Je–Jl, *Joh* (Mall).
C. levis Coq. Ithaca, Je–Jl (Mall).
C. peregrinus Joh. Old Forge; Ithaca, Jl–Aug (Joh); McLean, *Claas* (Joh).

EUFORCIPOMYIA Malloch

E. eques Joh. Old Forge, Je–Jl; Ithaca, Je (Joh).

PSEUDOCULICOIDES Malloch

P. mutabilis Coq. Ithaca, Jl (Mall); McLean (Joh).
P. major Mall. Ithaca (Mall).

FORCIPOMYIA Meigen

F. cilipes Coq. Ithaca, Jl–Nov (Mall).
F. coquilletti Kieff. Adirondacks.
F. specularis Coq. Erie Co, Ap–Aug (MCV); Ithaca, McLean, Ap–Aug (Mall).
F. squamipes Coq. Fulton Co; Ithaca and vic., Jl–Aug (Mall).

PALPOMYIA Meigen

P. illinoensis Mall. Ithaca.
P. longipennis Lw. Ithaca, Jl (Joh).
P. nebulosa Mall. McLean, Jl (Mall).
P. subasper Coq. Ithaca, Jl (Mall).
P. tibialis Meig. Hamburg, Je (MCV); Tompkins Co, Je–Jl (Joh).

JOHANNSENOMYIA Malloch

J. aequalis Mall. Hamburg, Je (MCV); Ithaca, Aug (Mall).
J. albaria Coq. var. **magnipennis** Joh. Old Forge, Je; Ithaca, Jl (Joh).
J. argentata Lw. Lancaster, Je, Aug (MCV); Ithaca, Je–Jl (Joh).
J. bimaculata Lw. "NY" (Lw).
J. caudelli Coq. N. Evans, Hamburg, May (MCV); Tonawanda, Aug (MCV).
J. polita Coq. Ithaca, May (Joh).

STILOBEZZIA Kieffer

(*Hartomyia* Malloch)

S. antennalis Coq. Lewiston, Je (MCV).
S. mallochi Hoffm. McLean, Je, *Sib* (Joh).

HETEROMYIA Say

H. fasciata Say. "NY".
H. flavipes Meig. (*flaviceps* Joh., *basalis* Walk.). Ithaca, McLean (Joh).
H. plebeja Lw. Ithaca (Mall); McLean, Aug, *Sib* (Joh).
H. rufa Lw. Erie Co, Je, Jl (MCV); Ithaca (Joh).
H. trivialis Lw. Erie Co, Je–Aug (MCV); Ithaca, McLean, Jl (Mall).

SERROMYIA Meigen

S. crassifemorata Mall. Lewiston, Jl (MCV).
S. femorata Meig. Ellis, Je (Joh).

BEZZIA Kieffer

B. flavitarsis Mall. Ithaca, Freeville, Jl (Mall).
B. setulosa Lw. Ithaca, Jl (Joh,Mall).
B. varicolor Coq. **LI:** Bellport (Coq).

PROBEZZIA Kieffer

P. albiventris Lw. Near Buffalo (MCV).
P. glaber Coq. Saranac Inn, Jl; Ithaca, Jl–Aug (Mall).
P. obscura Mall. Ithaca, Jl (Mall).
P. pallida Mall. Lancaster, Je (MCV).
P. xanthogaster Kieff. (*elegans* Coq.). Fulton Co, Je; Portage, Jl (MCV); Ithaca, Jl (Joh).

SUBFAMILY TANYPINAE

TANYPUS Meigen

(*Ablabesmyia* Johannsen)

T. arietinus Coq. Plattsburg, Aug–Sep (Coq).
T. bifasciatus Coq. Lancaster, Ap, Hamburg, May (MCV).
T. carneus Fab. Fulton Co, Jl; Ithaca, Jl (Joh); McLean, Jl; Nassau, Jl.
T. decoloratus Mall. McLean, Je, *Sib* (Joh).
T. dyari Coq. Fulton Co; Ithaca, Je (Joh); Albany; **LI:** Sheepshead Bay, Je; Bellport, Aug (Coq).
T. fastuosus Joh. Old Forge, Jl; Ithaca, Ap (Joh); McLean, Jl; Clinton Hgts.
T. florens Joh. Ithaca, McLean, Jl (Joh).
T. flavifrons Joh. Ithaca, Ap (Joh).
T. hirtipennis Lw. Old Forge, Jl–Aug, *Ndm* (Joh); Hamburg, May (MCV).
T. illinoiensis Mall. Erie Co, Je–Sep (MCV).
T. indecisus Will. McLean, Aug, *Sib* (Joh).
T. johnsoni Coq. Old Forge, Jl (Joh).
T. marginellus Mall. Ithaca, Jl–Aug (Joh); McLean, Jl, *Sib* (Joh).
T. melanops Wied. Erie Co, May–Sep (MCV); Ithaca, Jl; McLean, Jl (Joh).
T. monilis L. Fulton Co, Jl; Saranac Inn, Je; Buffalo, Sep (MCV); Ithaca, May–Jl (Joh); McLean, Aug, *Sib* (Joh); Nassau, Je.
T. ornatus Meig. Ithaca, Jl (Joh).
T. pallens Coq. Fulton Co; Niagara Falls, Je (Jn); Colden, May (MCV); Ithaca, Aug (Joh).
T. sinuosus Coq. Fulton Co (Joh).

PROTENTHES Johannsen

P. culiciformis L. Fulton Co; Old Forge, Je; Lewiston, May (MCV); Erie Co, Je–Sep (MCV); Ithaca, Jl (Joh); McLean, Jl, *Sib* (Joh).
P. pulcher Joh. Old Forge, Je (Joh).
P. stellatus Coq. Ithaca, Jl (Joh); McLean, Jl, *Sib* (Joh); Poughkeepsie.
P. vestitipennis Kieff. Long L. (Kieff).

COELOTANYPUS Kieffer

C. tricolor Lw. "NY" (Lw).

TRICHOTANYPUS Kieffer

T. persimilis Joh. (*posticalis* Joh. nec Lundb.). Ithaca, McLean, Ap (Joh).

PROCLADIUS Skuse

P. adumbratus Joh. Ithaca, Jl (Joh).
P. bellus Lw. Old Forge, Jl–Aug (Joh).
P. pusillus Lw. Fulton Co; Ithaca, Jl (Joh); McLean, Jl, *Sib* (Joh).

CLINOTANYPUS Kieffer

C. caliginosus Joh. Buffalo, Je (MCV); Ithaca, Jl, Oct (Joh), Jl, *Sib* (Joh).
C. pinguis Lw. Ithaca, Aug (Joh).

SUBFAMILY CHIRONOMINAE

DIAMESA Meigen

D. waltlii Meig. Fulton Co; Lancaster (MCV); Ithaca, Nov–Ap (Joh); Albany, Jan.

PSILODIAMESA Kieffer

P. fulva Joh. Ithaca (Joh).

PRODIAMESA Kieffer

P. notata St. McLean, Sep, *Sib* (Joh).

CARDIOCLADIUS Kieffer

(*Thalassomyia* Am. auct.)

C. fulvus Joh. Old Forge, Jl (Joh).
C. obscurus Joh. Old Forge, Jl, Aug; Niagara Falls, Je, Jl (MCV); Ithaca, Jl–Sep (Joh); McLean, *Claas* (Joh).
C. platypus Coq. Niagara Falls.

ORTHOCLADIUS Van der Wulp

O. absurdus Joh. Ithaca (Joh).
O. atomarius Zett. Ithaca (Joh).
O. nivoriundus Fitch. Erie Co, May–Oct (MCV); Ithaca, Ap (Joh); McLean.
O. obumbratus Joh. Erie Co, Ap–Aug (MCV); Ithaca, Ap; McLean, Ap (Joh).
O. sordidellus Joh. (nec Eur. auct.). Old Forge, Jl, Aug; Buffalo, May (MCV); Ithaca (Joh).

TRICHOCLADIUS Kieffer

T. fugax Joh. Buffalo, May (MCV); Ithaca (Joh).
T. nitidus Mall. McLean, Jl, *Sib* (Joh).

PSECTROCLADIUS Kieffer

P. flavus Joh. Ithaca, Jl (Joh).

DACTYLOCLADIUS Kieffer

D. sordens Joh. Old Forge, Jl; Ithaca (Joh); McLean, *Sib* (Joh).

CRICOTOPUS Van der Wulp

C. bicinctus Meig. Fulton Co; Old Forge, Jl; Erie Co, May–Oct (MCV); Ithaca, Jl, Aug (Joh); McLean, Sep, *Sib* (Joh); Delmar, May.

C. exilis Joh. Ithaca, Jl (Joh).

C. silvestris Fab. Buffalo, Oct (MCV).

C. tremulus Linn. Hamburg, Ap (MCV); McLean, Ap (Joh); Niagara Falls, Je (Jn).

C. trifasciatus Panz. Fulton Co; Old Forge, Jl; Erie Co, May–Je (MCV); Ithaca, Jl, Aug (Jn); Albany, Sep.

C. varipes Coq. Fulton Co; Saranac Inn; Erie Co, Ap–Aug (MCV); Ithaca, May, Oct (Joh).

CAMPTOCLADIUS Van der Wulp

C. aterrimus Meig. Buffalo, Hamburg, Ap (MCV).

C. byssinus Schrank. Erie Co, Ap, Sep (MCV); Ithaca, Jl (Joh).

C. fumosus Joh. Old Forge; Erie Co, May (MCV); Ithaca, Ap (Joh); McLean (Joh).

C. graminicola Lundb. Buffalo, Oct (MCV).

C. minimus Meig. Lancaster, Buffalo, Ap (MCV); Ithaca, May (Joh).

CHASMATONOTUS Loew

C. bimaculatus O.S. Fulton Co, Je (Joh); Erie Co, May–Je (MCV); Little Valley, May (MCV); Poughkeepsie.

C. unimaculatus Lw. L. Placid (Joh).

CORYNONEURA Winnertz

C. celeripes Winn. Old Forge, Jl; Ithaca, Aug; McLean, Jl (Joh).

METRIOCNEMUS Van der Wulp

M. atratulus Zett. Old Forge, Jl; Ithaca, McLean, Jl (Joh).

M. debilipennis Lundb. Old Forge, Jl (Joh); Buffalo, Aug, Oct (MCV).

M. exagitans Joh. Ithaca; McLean, Jl (Joh).

M. flavifrons Joh. Fulton Co; Old Forge, Jl; Ithaca; McLean, Jl (Joh).

M. knabi Coq. Hamburg, Ap (MCV); McLean, Jl (Joh).

M. lundbeckii Joh. Old Forge, Jl; Ithaca; McLean, Jl (Joh).

BRILLIA Kieffer

B. par Joh. Axton, Jl; Old Forge, Jl; Fulton Co (Joh).

TANYTARSUS Van der Wulp

T. deflectus Joh. Ithaca, Je (Joh).

T. dissimilis Joh. Ithaca, Je (Joh).

T. dives Joh. Buffalo, May–Oct (MCV); N. Evans, May (MCV); Ithaca, Ap; McLean, Jl (Joh).

T. pellucidus Walk. (*exiguus* Joh.). Old Forge, Jl; Ithaca (Joh).
T. fatigans Joh. Ithaca, Ap; McLean, Jl (Joh).
T. flavellus Joh. Fulton Co; Erie Co, Je–Sep (MCV); Ithaca (Joh).
T. flavicauda Mall. McLean, Je, *Sib* (Joh).
T. fulvescens Joh. Old Forge, Jl; Ithaca, Jl (Joh).
T. gmundensis Egger. Buffalo, Ap–May (MCV); Ithaca, Ap, May, Oct (Joh).
T. johannsenii Bause. Saranac Inn.
T. muticus Joh. Ithaca, Ap–May (Joh).
T. neoflavellus Mall. Buffalo, Aug (MCV).
T. nigripilus Joh. Ithaca, Ap, Jl (Joh).
T. obediens Joh. Fulton Co; Old Forge, Jl; Niagara Falls, Oct, Buffalo, Sep (MCV); Ithaca, Jl (Joh).
T. pusio Meig. Old Forge, Jl; Hamburg, May, Lancaster, Sep (MCV); Ithaca, Ap (Joh).
T. tenuis Meig. Buffalo, May, Grand I., Je (MCV); McLean, Jl, Sep (Joh); Ithaca, Jl (Joh).

PSEUDOCHIRONOMUS Malloch

P. richardsoni Mall. Ithaca, May (Joh).

CALOPSECTRA Kieffer

C. americana Kieff. Long L.

CHIRONOMUS Meigen

C. aberrans Joh. Fulton Co; Lancaster, Je, Hamburg, Sep (MCV); Ithaca, May, Je (Joh); McLean, Jl, Aug, *Sib* (Joh).
C. albimanus Meig. Fulton Co; Old Forge, Jl; Springville, Je (MCV); Pike, Je; Ithaca (Joh); McLean, Je, Aug, *Sib* (Joh).
C. albipennis Meig. E. Aurora, May (MCV).
C. anonymus Will. **LI**: Bellport (Coq).
C. brachialis Coq. Fulton Co; Old Forge, Jl; Lancaster, Je, E. Aurora, Je–Aug (MCV); Ithaca (Joh); Albany.
C. braseniae Leathers. Ithaca, Je.
C. brevitibialis Zett. Erie Co, May–Oct (MCV); Nassau, Je; **LI.**
C. brunneipennis Joh. Ithaca, Jl (Joh).
C. calopterus Mitch. N. Evans, May (MCV).
C. cayugae Joh. Ithaca, Je (Joh).
C. cristatus Fab. Niagara Falls, Je (Jn); Ithaca, Je, Jl (Joh); McLean, Jl–Sep, *Sib* (Joh).
C. decorus Joh. Fulton Co; Erie Co, May–Sep (MCV); Ithaca, Jl, Aug (Jn); McLean, Jl, Sep, *Sib* (Joh); Clinton Hgts., Sep; Albany, Je.
C. devinctus Say. Old Forge, Jl; Buffalo, Grand I., Je (MCV); Ithaca, Jl (Joh).
C. dux Joh. Buffalo, Lancaster, Williamsville, Je–Oct (MCV); Ithaca, Aug; McLean, Jl (Joh).
C. excavatus Kieff. Adirondacks.

C. fallax Joh. Ithaca, Je (Joh); McLean, Aug, Sep, *Sib* (Joh).
C. fasciventris Mall. Buffalo, Jl (MCV).
C. ferrugineovittatus Zett. Var. of *plumosus*? Ithaca (Joh).
C. festivus Say. E. Aurora, Jl (MCV).
C. flavicingula Wlk. Fulton Co; Erie Co, May–Sep (MCV); Ithaca, Sep (Joh); McLean, May, Aug, Sep, *Sib* (Joh).
C. flavus Joh. Niagara Falls, Oct (MCV); Erie Co, May–Oct (MCV); Ithaca, (Joh); McLean, Je–Jl, *Sib* (Joh).
C. frequens Joh. Old Forge, Jl; Ithaca, Jl (Joh).
C. fulviventris Joh. Saranac Inn, Je; Ithaca, Jl (Joh).
C. fulvus Joh. Buffalo, Je, Hamburg, Sep (MCV); Ithaca, Jl–Aug (Joh).
C. fumidus Joh. Ithaca, Jl, Aug (Joh).
C. griseopunctatus Mall. Niagara Falls, Sep (MCV); Gowanda, May, Buffalo, May–Sep (MCV).
C. halteralis Coq. Fulton Co; Niagara Falls, Sep (MCV); Ithaca, Jl, Aug (Joh).
C. hilaris Walk. (*nephoterus* Mitch.). Fulton Co; Old Forge, Jl (Joh).
C. hirtipes Mitch. Ft. Porter (EGM); Old Forge, Jl (Joh).
C. hyperboreus Staeg. Fulton Co; Old Forge, Jl (Joh).
C. indistinctus Mall. Ithaca, NY (Joh).
C. ithacanensis Joh. Ithaca (Joh).
C. lineatus Say. Old Forge, Jl (Joh); E. Aurora, Je–Jl (MCV).
C. lobiferus Say (*Glyptotendipes*). Albany (Joh); McLean, Jl, *Sib* (Joh).
C. maturus Joh. Ithaca, Mar; McLean (Joh).
C. modestus Say. Fulton Co; Old Forge, Jl; Ithaca, Jl (Joh); **LI**: Bellport (Coq).
C. naevus Mitch. Buffalo, Sep–Oct (MCV); Hamburg, May (MCV).
C. needhami Joh. Fulton Co; Niagara Falls, Je (Joh); Ithaca; Nassau.
C. nigricans Joh. Old Forge, Jl; Niagara Falls, Jl–Oct (Joh); Erie Co, Je–Sep (MCV); Ithaca, Je, Jl; McLean, Jl, *Sib* (Joh).
C. nubeculosus Meig. Buffalo, Je (MCV).
C. ornatipes Kieff. (*devinctus* Say?). Long L. (Kieff).
C. pallidus Joh. Niagara Falls, Oct (MCV); Erie Co, May–Sep (MCV); Ithaca, Jl, Aug (Joh).
C. pedellus DeG. Fulton Co; Erie Co, May–Sep (MCV); Ithaca, May, Jl (Joh); McLean, Jl, Aug, *Sib* (Joh); Albany, Je.
C. plumosus L. Fulton Co; Niagara Falls, Je (MCV); Buffalo, May–Jl (MCV); Chautauqua L. (CVRiley); Ithaca (Joh); McLean, Je, Aug, Sep, *Sib* (Joh).
C. perpulcher Mitch. Fulton Co (Mitch).
C. poecilopterus Mitch. Old Forge, Jl (Joh); Lancaster, Je (MCV).
C. prasinus Meig. Ithaca, Jl (Joh).
C. pseudoviridis Mall. Ithaca (Joh).
C. pulchripennis Coq. Long L. (Coq); Grand I., Je (MCV).
C. quadripunctatus Mall. Old Forge, Jl–Aug (Joh).
C. riparius Meig. Erie Co, Ap–Oct (MCV); Little Valley, Je (MCV); Ithaca (Joh).
C. similis Joh. Adirondacks (Joh).

C. stigmaterus Say. N. Evans, Sep (MCV); **LI** (BDW).
C. stylifera Joh. Ithaca, Jl (Joh).
C. taeniapennis Coq. Rochester, May (MCV); Lewiston, Jl, Grand I., Je (MCV); Nassau, Je; Ithaca (Joh); McLean, Je, *Sib* (Joh).
C. tenellus Zett. Old Forge, Jl; Ithaca, May (Joh).
C. tentans Fab. Ithaca, Jl (Joh).
C. viridicollis Wulp. Fulton Co; Old Forge, Jl; Ithaca, Jl (Joh).

FAMILY **THAUMALEIDAE**

(*Orphnephilidae*)

THAUMALEA Ruthe

(*Orphnephila* Haliday)

T. americana Bezzi. Ithaca, Aug, *Joh* (Bezzi).

FAMILY **CECIDOMYIIDAE**

(*Itonididae*)

Compiled by E. P. FELT

SUBFAMILY **LESTREMINAE**

Tribe **LESTREMINARIAE**

LESTREMIA Macquart

L. acerifolia Felt. Albany, May 21, on soft maple.
L. pini Felt. Albany, Jl 16, on pine.
L. sambuci Felt. Albany, Aug 6, on elder (*Sambucus canadensis*); probably an inhabitant of decaying vegetable matter.
L. setosa Felt. Albany, Jl 24, on maple.
L. spiraeina Felt. Albany, Je 15, on Spiraea.

MICROCERATA Felt

M. borealis Felt. Speculator, Jl 27, *Yg.*
M. corni Felt. Albany, Jl 6, on Cornus.
M. diervillae Felt. Karner, Je 5, on bush honeysuckle (*Diervilla trifida*).
M. perplexa Felt. Albany, Jl 19, on poison ivy.

TRITOZYGA Loew

T. borealis Felt. Keene Val., Sep 10–15, *Not.*
T. fenestra Felt. Albany, Je 3, on an office window.

NEPTUNIMYIA Felt

N. flavida Felt. Keene Val., Aug 26, *Not.*
N. tridens Felt. Albany, reared Ap 17.

NEOCATOCHA Felt

N. sylvana Felt. Keene Val., Sep 6, *Not.*

KONISOMYIA Felt

K. borealis Felt. Keene Val., Aug 30, *Not.*
K. fusca Felt. Albany, Je 2, on an office window.

Tribe CAMPYLOMYZARIAE

JOANNISIA Kieffer

J. borealis Felt. Keene Val., Aug 30, *Not.*
J. flavopedalis Felt. Newport, Jl 25.
J. flavoscuta Felt. Nassau, Jl 24, on a window.
J. photophila Felt. Albany, Jl–Aug, on an office window; Poughkeepsie, in a trap lantern.

CAMPYLOMYZA Meigen

C. carpini Felt. Albany, Je 1, on ironwood.
C. cerasi Felt. Newport, Jl 25.
C. flavoscuta Felt. Albany, Je 4.
C. gibbosa Felt. L. Clear, Je 7, on spruce.
C. modesta Felt. L. Clear, Je 7, on balsam.
C. monticola Felt. Keene Val., Aug 30, *Not.*
C. pomiflorae Felt. Karner, May 14, about flowers of shadbush and wild cherry.
C. pomifolia Felt. Nassau, May 6, on apple leaves.
C. producta Felt. Nassau, Jl 31, on a window.
C. vitinea Felt. Albany, Aug 14, about grape or ash.

PRIONELLUS Kieffer

(*Prionota* Kieffer)

P. defectiva Felt. Newport, Jl 27, on hemlock.
P. graminea Felt. Karner, Ap 27, on grass.
P. hesperia Felt. Newport, Jl 27, on hemlock.
P. latipennis Felt. Karner, Ap 27, on pine.
P. leguminicola Felt. Albany, Je 4, on red clover.
P. longipennis Felt. Albany, Aug 2, on an office window.
P. tsugae Felt. L. Clear, Je 7, on hemlock.

MONARDIA Kieffer

M. alexanderi Felt. Sport I., Sacandaga R., Jl 25, *Alex.*
M. balsamicola Felt. L. Clear, Je 7, on balsam.
M. gilletti Felt. Albany, Sep 11, on a window.
M. karnerensis Felt. Karner, May 16.
M. populi Felt. Albany, Je 4, on large-toothed poplar.
M. toxicodendron Felt. Albany, Je 4, on poison ivy.

CORDYLOMYIA Felt

C. brevicornis Felt. Nassau, Jl–Aug, on a window.
C. luna Felt. Westfield, Jl 11.
C. tumida Felt. Albany, Je 25, on a window.
C. versicolor Felt. Albany, Jl 17.

CORINTHOMYIA Felt

C. gracilis Felt. Albany, Jl 5, on an office window.
C. hirsuta Felt. Albany, Aug 1, on an office window.

SUBFAMILY HETEROPEZINAE

MIASTOR Meinert

M. americana Felt. Highland, Tivoli, Nassau, L. Placid. The larvae, frequently paedogenetic, are common in the decaying bark of various trees, especially maple, chestnut, oak, birch, beech, and hickory, and are more abundant in the early spring; probably widely distributed in the State.

JOHNSONOMYIA Felt

J. fusca Felt. Albany, Aug 9.

LEPTOSYNA Kieffer

L. americana Felt. Nassau, May 27, in trap lantern.
L. quercivora Felt. Reared Ap 20 from partly rotten red-oak bark collected at Nassau.

KRONOMYIA Felt

K. populi Felt. Reared May 5 from a whitish larva found in punky poplar wood at Nassau, Ap 12.

BRACHYNEURA Rondani

B. americana Felt. Albany, Aug 2, on a window.
B. eupatorii Felt. Reared Sep 14, possibly from a stem gall on thoroughwort (*Eupatorium perfoliatum*) taken at Poughkeepsie.
B. vitis Felt. Reared Jl 13 from a jar containing *Lasioptera vitis* galls, collected probably at W. Nyack.

OLIGARCES Meinert

O. novaeboracensis Felt. Albany, Jl 15, on a window.
O. ulmi Felt. Reared Mar 18, from larvae occurring in the thick, partly decaying bark of an old elm at Nassau.

SUBFAMILY ITONIDIDINAE

Tribe PORRICONDYLARIAE

WINNERTZIA Rondani

W. aceris Felt. Reared from white larvae occurring under the thin, decaying bark of sugar maple at Schodack.

W. ampelophila Felt. Albany, Jl 3, on Virginia creeper.
W. calciequina Felt. Albany, Jl 24.
W. carpini Felt. Albany, Je 1, on ironwood.
W. hudsonica Felt. Reared Je 25 at Albany from a jar containing leaves of Crataegus bearing greenish, stout, cup-shaped, fimbriate galls.
W. karnerensis Felt. Karner, Je 26.
W. palustris Felt. Canada L., Caroga, Jl 10, *Alex.*
W. pectinata Felt. Reared the following spring from larvae found under decaying chestnut bark at Nassau, Nov; Keene Val., Aug 27, *Not.*
W. solidaginis Felt. Albany, Jl 6.
W. rubida Felt. Albany, Je 15.

PARWINNERTZIA Felt

P. notmani Felt. Keene Val., Jl 17, *Not.*

DIDACTYLOMYIA Felt

D. flava Felt. Albany, Jl 6.
D. longimana Felt. Both sexes collected by *Alex*, Aug, at Woodworth's L.
D. maculata Felt. Poughkeepsie, Je 28, in a trap lantern; apparently the same form was captured in a similar manner at Newport, Jl 11.
D. robusta Felt. Keene Val., Sep 14, *Not.*

COLPODIA Winnertz

C. alta Felt. Karner, Jl 5.
C. americana Felt. Woodworth's L., Aug 14, *Alex.*
C. capitata Felt. Woodworth's L., Aug, *Alex.*
C. diervillae Felt. Karner, Jl 5.
C. graminis Felt. Albany, Jl 14, on quack grass.
C. maculata Felt. Albany, Jl 16.
C. ovata Felt. Woodworth's L., Aug, *Alex.*
C. pectinata Felt. Reared in Aug from a jar containing irregular, subglobose leaf swellings on basswood collected at Albany.
C. porrecta Felt. Woodworth's L., Aug, *Alex.*
C. sanguinea Felt. Nassau, Jl 15; later reared by *Ald* from an almost pure blue-grass sod.
C. sylvestris Felt. Woodworth's L., Aug, *Alex.*
C. temeritatis Felt. Reared Sep 9 from a jar containing ash leaves bearing a purplish green, subglobular gall collected near Albany.
C. terrena Felt. Albany, Jl 7, on quack grass.
C. trifolii Felt. Albany, Jl 3, on white clover.

ASYNAPTA Loew

A. apicalis Felt. Woodworth's L., Aug 24, *Alex.*
A. borealis Felt. Keene Val., Aug 28, *Not.*
A. caudata Felt. Albany, Je.

A. cerasi Felt. Albany, Je 21, on cherry.
A. dolens Felt. Keene Val., Sep 7, *Not.*
A. flavida Felt. Nassau, Jl 6.
A. furcata Felt. Nassau, Je 21.
A. mediana Felt. Woodworth's L., Aug 28, *Alex.*
A. salciperda Felt. Keene Val., Aug 27, *Not.*

PORRICONDYLA Rondani

P. antennata Felt. Johnstown, Jl 11, *Alex.*
P. bidentata Felt. Keene Val., Aug 26, *Not.*
P. borealis Felt. L. Clear, Je 7, on spruce.
P. caudata Felt. Nassau, Jl 9, in a trap lantern.
P. dilatata Felt. Reared Sep 7, from a jar containing galls of *Cecidomyia verrucicola* O.S. collected at Highland.
P. dorsata Felt. Dug Mt., Aug 8, *Yg.*
P. flava Felt. L. Clear, Je 7, on red maple.
P. fultonensis Felt. Woodworth's L., Je, *Alex.*
P. juvenalis Felt. Elm L., Aug 7, *Yg.*
P. karnerensis Felt. Karner, May 16.
P. pini Felt. Albany, Je 11, on white pine.
P. setosa Felt. Woodworth's L., Aug 21, *Alex.*
P. spinigera Felt. Keene Val., Sep 4, *Not.*
P. tumidosa Felt. Keene Val., Aug 27, *Not.*
P. wellsi Felt. Wells, Jl 5, *Yg.*

CAMPTOMYIA Kieffer

C. aestiva Felt. Keene Val., Sep 4, *Not.*
C. antennata Felt. Keene Val., Sep 15, *Not.*
C. dentata Felt. Keene Val., Sep 3, *Not.*
C. montana Felt. Wells, Jl 5, *Yg.*
C. pectinata Felt. Keene Val., Aug 26, *Not.*
C. tsugae Felt. Reared from pinkish maggots inhabiting the larval galleries of *Melanophila fulvoguttata* working in dying hemlock in NYC; Scarsdale, Dec 2, larvae on hemlock.

DIRHIZA Loew

D. canadensis Felt. Keene Val., Aug 14, *Not.*
D. hamata Felt. Albany, Je 8; appears to be somewhat common; Keene Val., Aug 7, *Not.*
D. multiarticulata Felt. Keene Val., Aug 29, *Not.*
D. photophila Felt. Nassau, May 7, in a trap lantern.
D. sylvestris Felt. L. Clear, Je 7, in a balsam woods.

HOLONEURUS Kieffer

H. altifilus Felt. Karner, Je 26, flying about skunk cabbage.

H. humulis Felt. Albany, Jl 24, on low blackberry.

H. inflatus Felt. Keene Val., Sep 12, *Not.*

H. multinodus Felt. Nassau, Jl 7, in a trap lantern.

H. photophilus Felt. Nassau, Je 3, in a trap lantern.

H. tarsalis Felt. Reared Aug 15 from pine needles and débris collected at North Cr.

Tribe DASYNEURIARIAE

RHABDOPHAGA Westwood

R. absobrina Felt. Albany, May 17.

R. acerifolia Felt. Albany, May 17. Food plant unknown.

R. aceris Shim. Produces an irregular curling of white or silver maple leaves, and occurs at Albany (Jl, larvae and cocoons on soft maple) and probably other points in the State; Gloversville, Aug; Rensselaer, Jl, larvae on soft maple.

R. batatas Walsh. Produces a gall which is common on willow in and about Albany, and is presumably widely distributed through the State; Canandaigua, Oct, gall on willow.

R. brassicoides Walsh. Inhabits the willow cabbage-gall, a deformity very common in certain parts of the State.

R. cephalanthi Felt. Nyack, Jan 7, 1884, reared from twigs on buttonbush (*Cephalanthus occidentalis*), *Zab.*

R. consobrina Felt. Albany, May 17.

R. cornuta Walsh. Galls provisionally identified as those of this species were observed at W. Nyack.

R. gemmae Felt. Albany, Je, reared from a peculiar stunted, elongate tip of a willow twig.

R. globosa Felt. Albany, May 7, reared from willow twigs bearing small, rounded galls, a part of the surface showing a discolored, dead area.

R. hirticornis Felt. Albany, Ap, Sep 20, reared from jars containing various galls, especially those of *Caryomyia persicoides* and *Schizomyia pomum.*

R. latebrosa Felt. Albany, May 7, reared from apparently normal willow buds.

R. marginata Felt. Albany, May 23, captured on choke cherry.

R. nodula Walsh. Produces a small, nodular swelling usually encircling the bases of smaller willow branches, and is somewhat common in the vic. of NYC.

R. persimilis Felt. Albany, Ap 11, reared from a rather typical though slender *R. strobiloides* Walsh gall.

R. podagrae Felt. Produces inconspicuous swellings 5–7 cm. long in willow twigs. Appears to be common at E. Schodack.

R. populi Felt. Karner, May, reared from whitish cocoons on poplar. Appears to be a rather common species.

R. porrecta Felt. Gloversville, Ap 5, *Alex.*

R. pratensis Felt. Albany, Je 4, on red clover.

R. ramuscula Felt. Ap 22, from Salix twigs bearing galls closely resembling those of *R. batatas* Walsh.

R. salicifolis Felt. Produces a characteristic thickened brownish midrib fold on meadowsweet, which is moderately common about Albany and at Nassau; Hudson Falls, Sep, on hardhack.

R. salicis Schrk. A European species which has become established in the vicinity of Rochester and is probably to be found in the important centers for the growing of European willow.

R. sodalitatis Felt. Albany, Ap 13, reared from what appeared to be a typical *Phytophaga rigidae* gall on Salix.

R. strobiloides Walsh. Produces the common pine-cone-like gall on willow, which appears to be widely distributed throughout the State; Albany; Trudeau, Aug 7.

R. triticoides Walsh. Appears to be common in vic. of Albany, and is probably widely distributed in the State, especially in localities favorable for the growth of its food plant, Salix. The gall is an irregular enlargement from 1 to nearly 3 cm. thick and about 6 mm. in diameter, and is evidently caused by the dwarfing of a number of adjacent buds.

DASYNEURA Rondani

D. aberrata Felt. Albany, May 19.

D. acerifolia Felt. Albany, May 21, on maple.

D. albohirta Felt. Albany, May 17.

D. albovittata Walsh. W. Nyack, reared from the common pine-cone galls of *Rhabdophaga strobiloides* Walsh.

D. ampelophila Felt. Albany, Jl 13, on Virginia creeper.

D. anemone Felt. Kinderhook and Nassau, Jl 12, reared from a loose bud gall on *Anemone canadensis.*

D. antennata Felt. Albany, Je 11, on sugar maple.

D. apicata Felt. Highland, Sep 7, reared from a deformed terminal growth on ash.

D. attenuata Felt. Albany, Je 9.

D. augusta Felt. Albany, Aug 6, on oak.

D. aurihirta Felt. Albany, Jl 6, on New Jersey tea.

D. bidentata Felt. Albany, Je 21, on white oak.

D. borealis Felt. L. Clear, Je 7, found in collecting from spruce.

D. carbonaria Felt. Albany, Jl 27, reared probably from a loose apical gall on the narrow-leaved Solidago.

D. caricis Felt. Albany, Je 4, on sedge.

D. cirsioni Felt. Albany, Jl 17, on Canada thistle.

D. clematidis Felt. Produces an irregular, subglobular, axillary mass 1 cm. in diameter, composed of deformed, enlarged, rudimentary leaves or young buds. Recorded from Highland, Albany, and Newport.

D. communis Felt. Produces thickened vein swellings on soft maple which are very common in different parts of the State. Canandaigua, Je, Oct; Goshen, Oct, 9, on red maple; Patterson, Je; Hudson Falls.

D. consobrina Felt. Albany, Je 11, on white pine.

D. denticulata Felt. L. Clear, Je 7, on white spruce.

D. filicis Felt. Albany, May 17.

D. flavescens Felt. Albany, Jl 17, on ash.

D. flavicornis Felt. Albany, latter part of Jl, reared from a greenish or purplish pouch-like gall on the narrow-leaved Solidago.

D. flavoabdominalis Felt. Albany, Aug 6, on Solidago.

D. flavoscuta Felt. Albany, Je 11, on Solidago.

D. fraxinifolia Felt. Rensselaer, Aug 1, reared from tightly rolled leaves of ash.

D. fulva Felt. Nassau, Je 14, on huckleberry.

D. gleditschiae O.S. Produces characteristic pod-like swellings on the leaves of honey locust, and has been recorded as not common in Central Pk., NYC.

D. graminis Felt. Has been observed ovipositing in redtop or June grass; recorded from Albany, Kinderhook, and Poughkeepsie.

D. karnerensis Felt. Karner, Je 4, on Aster or Solidago.

D. leguminicola Lint. The common clover-seed midge. Appears to be widely distributed in the State, and materially restricts the production of clover seed.

D. lysimachiae Bt. Albany and Elm L., reared from a terminal conical leaf gall on the whorled loosestrife.

D. maculosa Felt. Nassau, Je 14, on a window.

D. meliloti Felt. Albany, Aug 6, on sweet clover.

D. modesta Felt. Albany, May 19, near a red oak.

D. multiannulata Felt. Nassau, Je 14, on hickory.

D. parthenocissi Steb. Produces a characteristic, sometimes winged, midrib gall on woodbine. Rather common at Nassau and in vic. of Syracuse.

D. pedalis Felt. Newport, Je 27, in a trap lantern.

D. photophila Felt. Nassau, Je 10, on a window.

D. piperitae Felt. Nassau, early Aug, reared from the enlarged terminal buds of peppermint.

D. pseudacaciae Fitch. Deforms the young leaves of black locust, and is common in various parts of NY from **LI** northward to Glens Falls, Je.

D. pudorosa Felt. Nassau, Je 14.

D. purpurea Felt. Karner and **SI**, Sep, reared from oval or fusiform bud-like flower galls of joe-pye weed.

D. quercina Felt. Albany, May 18, on oak.

D. rhodophaga Coq. Occurs in violet houses; recorded as causing considerable injury at Rhinebeck and presumably in other violet-growing centers; Beacon, Oct, on rose.

D. rhois Coq. Lebanon Sps., Mar, reared by Coquillett from galls on the roots of the common poison ivy; Whitehall.

D. rosarum Hardy. Albany, Jl 11, reared from folded terminal leaves of rose.

D. rufipedalis Felt. Karner, Je 4, on red clover.

D. salicifolia Felt. Albany, Aug, reared from young terminal adherent willow leaves.

D. scutata Felt. Albany, Jl 16.

D. semenivora Bt. Produces a plum-like gall on violet; recorded from Albany.

D. serrulatae O.S. Produces a bud gall on alder. Vic. Albany, rather common; Hudson Falls, Ap. Probably widely distributed throughout the State.

D. setosa Felt. Nassau, Aug 10, on a window.

D. simillima Kieff. (*similis* Felt). Albany, Jl 7, on thistle.

D. simulator Felt. Nassau, Jl 3 and 21.

D. smilacinae Bish. Ithaca, reared from root galls on false Solomon's seal.

D. trifolii Lw. Newfane, Je 2; W. Haverstraw, W. Nyack, Je 14; Wappinger Falls, Je 28; Ghent, Jl 29. Is probably moderately common where white clover (*Trifolium repens*) has been growing for a series of years. The larvae prevent the leaves from unfolding, and produce a yellowish or brownish discoloration of the affected parts.

D. tumidosae Felt. Reared in small numbers from jars containing numerous galls collected at Highland and generally identified as those of *Cecidomyia pellex* O.S.

D. unguicula Felt. Nassau, Jl–Aug.

D. vernalis Felt. Nassau, Je 14, on New Jersey tea.

D. vitis Felt. W. Nyack, Jl 16, reared from the common tomato gall of the grape, and presumed to be that of *Lasioptera vitis* O.S.

LASIOPTERYX Felt

L. carpini Felt. Albany, Je 21, on ironwood or blue beech.

L. coryli Felt. W. Nyack, Jl 11, reared from a fuzzy, wrinkled, fold gall at the base of hazel leaves.

L. flavotibialis Felt. Nassau, May, reared from larvae in a partly decayed oak stump.

NEUROMYIA Felt

N. minor Felt. Nassau, Jl, on a window.

CYSTIPHORA Kieffer

C. canadensis Felt. Inhabits a blister leaf gall on white lettuce or rattlesnake root. **LI:** Orient, Aug, gall on Prenanthes.

C. viburnifolia Felt. Produces a very common, inconspicuous blister leaf gall on hobblebush. Albany.

RHIZOMYIA Kieffer

R. absobrina Felt. Albany, Jl 11 and 26, reared from a jar containing Crataegus leaves bearing cylindric, fimbriate, unicellular galls.

R. cerasi Felt. Albany, Je 21.

R. cincta Felt. Albany, Jl 30, on Cornus.

R. hirta Felt. Rensselaer, Aug 17, reared from reddish, blister-like leaf mines on Crataegus.

R. hispida Felt. Albany, Jl 6.

R. ungulata Felt. Albany, Jl 6.

R. vitis Felt. Albany, Jl 13, reared from the tomato grape gall, *Lasioptera vitis*.

Tribe LASIOPTERARIAE

LASIOPTERA Meigen

L. abhamata Felt. Karner, Je 4.

L. argentisquamae Felt. W. Nyack, Jl, reared from Solidago bearing a characteristic, adhesive leaf gall.

L. basiflava Felt. Albany, Jl 30, on grape.

L. caulicola Felt. Vic. Albany, Je 6, reared from an apparently normal stem of bush honeysuckle. The larvae are found just under the bark in a small, oval cell.

L. cinerea Felt. Albany, May 21, on black alder.

L. clavula Bt. Appears to have been reared from the characteristic clavate twig galls on *Cornus florida*. The deformity is rather common in the vic. of Albany southward to NYC, and presumably occurs in other parts of the State. **LI**: Sea Cliff, Feb 4, galls.

L. consobrina Felt. Albany, Je 10, on maple-leaved arrowwood.

L. convolvuli Felt. Produces a monothalamous, fusiform stem gall 1.5 cm. long, and 0.5 cm. in diameter, on the hedge bindweed. Rensselaer Co, Hudson, the adults appearing the middle of May.

L. corni Felt. Apparently reared from a greenish or red-ringed blister leaf gall on *Cornus paniculata*. This gall has been received from: W. Nyack; Ellenville; Catskill; Hudson Falls, Sep; Canandaigua, Sep–Oct; and probably occurs in other parts of the State.

L. cylindrigallae Felt. Reared in early May from a uniform Solidago stem enlargement, with a length of about 10 cm. and a diameter of 7 cm., the central cavity being slightly enlarged and containing a number of larvae. Somewhat common at W. Nyack and Nassau, and on **SI**.

L. danthoniae Felt. White Church, reared by Cy in the spring of 1908 from a bunch of Danthonia. The gall is undescribed.

L. excavata Felt. Albany, Aug 17, reared presumably from a blister-like reddish brown leaf mine occurring rather commonly on Crataegus.

L. farinosa Bt. Produces a characteristic warty, usually pruinose, woody swelling at the base of the leaflets or midrib of the common blackberry. Probably widely distributed, not uncommon. Canandaigua, Oct; Albany; NYC; **SI**, Aug–Sep (Ds); **LI**: Orient, Sep.

L. flavipes Felt. Albany, Jl 17, on white oak.

L. fraxinifolia Felt. Apparently reared from a purplish green, subglobular gall, 5 mm. in diameter, on ash leaves and described by O.S. as *Cecidomyia pellex*. This deformity appears to be somewhat common at L. Onondaga, Westfield, Highland, Poughkeepsie, and NYC.

L. hamata Felt. Nassau, Je 14, on Solidago.

L. hecate Felt. Albany, Je 19.

L. humulicaulis Felt. Occurs in a uniform swelling of the hop stem about 1 cm. in diameter and ranging in length from 4 to 50 cm. Rye, *Bird*; probably occurs in other parts of the State.

L. impatientifolia Felt. Albany, reared from a tumid midrib fold on the leaves of touch-me-not or snapdragon. Probably rather widely distributed throughout the State.

L. juvenalis Felt. Newport, Jl 25, on bouncing bet.

L. lactucae Felt. Karner, reared from a stem gall on the stalks of rabbit weed or wild lettuce, closely resembling the much more common gall produced by the cynipid, *Aylax tumidus* Bass.; probably occurs in other parts of the State.

L. linderae Bt. Produces an irregular, subcortical, eccentric stem gall 2 to 5 cm. in length, on spicebush. Vic. NYC, rather common, adults, May–Je.

L. lycopi Felt. Inhabits a globose stem gall 8 to 10 mm. long and 2.5 mm. in diameter, on bugle weed (*Lycopus communis*). Albany; Shushan; White Plains; **LI**: Orient, Mar, Sep, *Lath*; probably widely distributed in the State.

L. nassauensis Felt. Nassau, Jl.

L. neofusca Felt. Albany, May 25.

L. nodulosa Bt. Produces an irregular, subfusiform or elongate swelling on the smaller branches of blackberry. The gall is reddish, usually of the same color as the adjacent bark, about 2 cm. long, 1 cm. in diameter, and polythalamous. Vic. Albany; appears to be much more common in and about NYC; **SI** (Ds).

L. palustris Felt. W. Nyack, Ap 18, reared from a subglobular to elongate, irregular, fusiform stem gall on an unknown plant.

L. panici Felt. Albany, Je 27, taken as the female was evidently about to oviposit on *Panicum macrocarpon.*

L. riparia Felt. Westfield, Ap 27, reared from an oval or fusiform petiole or tendril gall on *Vitis bicolor.*

L. serotina Felt. Albany, May 23, on choke cherry.

L. solidaginis O.S. Produces a rough, eccentric stem gall, length and diameter about 2.5 cm., on *Solidago rugosa.* Albany, scarce; vic. NYC, common.

L. vernoniae Bt. NYC; **SI.** Reared from flower and leaf galls on ironwood. The leaf gall is oval, about 5 mm. long, green tinged with red, and shows on both surfaces of the leaf.

L. viburni Felt. Albany, Je 10, on maple-leaved arrowwood.

L. vitis O.S. Produces a reddish, irregular, frequently lobulated, succulent enlargement of the leaf stalk, parts of the leaf, or even the tendrils, of grape, the mass being 2 or 3 inches long and polythalamous. Several species of midges have likewise been obtained from this gall. The insect is probably widely distributed in NY, excepting possibly the Adirondack region. Kingston, Je; Manorville, Jl; Suffern, Jl; Rensselaer, Je; Nassau, Jl; Port Jervis, Aug; NYC, Je 13; **SI:** New Brighton, Je (larvae).

NEOLASIOPTERA Felt

N. albitarsis Felt. Nassau, reared May 18 and 21 from fusiform, irregular stem galls 1 cm. long and 6 cm. in diameter on *Diplopappus cornifolius.*

N. albolineata Felt. Albany, Aug 5.

N. ambrosiae Felt. Ithaca, Jan, reared by Cy from apparently normal stems of the giant ragweed (*Ambrosia trifida*).

N. asclepiae Felt. Albany, Je 20, reared from an elongate, fusiform stem gall on the swamp milkweed (*Asclepias incarnata*).

N. basalis Felt. Albany, Aug 6, on hazel.

N. celastri Felt. Albany, Jl 17, on bittersweet.

N. cinerea Felt. Albany, Je 21.

N. clematidis Felt. Newport, Jl 17, captured as the female was attempting to oviposit in the stem of Clematis; Hudson Falls, Sep, gall.

N. cornicola Bt. Produces an irregular, nodular, polythalamous gall on the small twigs, the larger branches, and the old stems of *Cornus stolonifera.* The gall varies in length from 1 to 2 cm., and is usually on one side of the twig. Hudson Falls, Mar, Nassau, abundant; W. Nyack; vic. NYC. Presumably widely distributed in the State. The midges appear in early May.

N. erigerontis Felt. Produces a fusiform stem gall on horse-weed (*Erigeron canadensis*).

N. eupatorii Felt. Canandaigua, Sep; **SI,** reared from an oval or subglobular stem gall with a length of 1.5 cm. and a diameter of 1 cm., on white snakeroot (*Eupatorium urticaefolium*).

N. flavomaculata Felt. Albany, Jl 11.

N. flavoventris Felt. Karner, Jl, flying about hard pine.

N. hamamelidis Felt. Albany, Je 10, on witch-hazel.

N. hamata Felt. Canandaigua, Sep; Albany, Ap–May, reared from an oval, polythalamous stem gall 2 cm. long and 5 cm. in diameter on an unknown weed.

N. helianthi Felt. Highland, Sep 3, from a gall on *Helianthus strumosus* supposed to be that of *Asphondylia globulus* O.S.

N. hibisci Felt. **SI,** Ap 25, reared from slightly enlarged stems of the swamp rose mallow, *Hibiscus moscheutos.*

N. liriodendri Felt. Albany, Je 8, on a tulip tree.

N. perfoliata Felt. Buffalo; Nassau. Midges in May. Produces an oval stem gall with a length of 1 to 1.5 cm. and a diameter of 0.5 cm., on boneset.

N. ramuscula Bt. Produces a fusiform branch gall with a length of 1 cm. and a diameter of 4 cm., on several species of Aster. Hudson Val.; probably widely distributed in State.

N. sambuci Felt. Produces an irregular, subcortical, polythalamous stem gall 2 to 6 cm. in length on elder. Nassau; NYC; probably widely distributed in State.

N. sexmaculata Felt. Nassau, Je 14.

N. tenuitas Felt. Albany, Jl 30.

N. tiliaginea Felt. Nassau, Je 14, on basswood.

N. tripunctata Felt. Nassau, Je 30.

N. viburnicola Bt. Produces an irregular, subcortical swelling from 2 to 5 or 6 cm. long on the larger branches of arrowwood (*Viburnum dentatum*). Vic. NYC, common.

N. vitinea Felt. Highland Falls; Albany; W. Nyack; vic. NYC, common; **SI,** Je 15, reared from a conical petiole gall on grape; probably widely distributed in the State. The gall is about 1.5 cm. long and 0.5 cm. in diameter, and contains from two to four larvae in a long central chamber.

ASTEROMYIA Felt

A. abnormis Felt. Albany, Jl 24.

A. albomaculata Felt. Jamesburg, reared from a diffuse, yellowish blister leaf gall 3 to 4 mm. in diameter on Aster leaves; Albany, adult captured on Solidago.

A. agrostis O.S. (*Lasioptera muhlenbergiae* Martin, and probably *Lasioptera carbonitens* Ckll.). Produces a somewhat cone-shaped, aborted apical gall on *Muhlenbergia mexicana.* Several localities in State.

A. asterifoliae Bt. Highland, reared Je–Jl from a circular, white-ringed blister leaf gall.

A. canadensis Felt. Albany, May 21.

A. carbonifera Felt. Produces an oval, characteristic, jet-black, blister leaf gall on the narrow-leaved Solidago, *Solidago graminifolia.* Appears to be abundant in most localities where the food plant occurs.

A. convoluta Felt. Albany, Aug 11, reared from a loose, convolute tip gall on Solidago.

A. divaricata Felt. Albany, Ap, reared from large, oval, blister leaf galls with a diameter of 1.2 cm. on *Aster divaricatus.*

A. flavoannulata Felt. W. Nyack, Jl 25, reared from a marginal, circular, golden gray, blister leaf gall with a diameter of 3.5 mm. on *Solidago canadensis.*

A. flavolunata Felt. Albany, Mar and Ap, reared from a characteristic marginal, somewhat oval, yellowish blister gall on Solidago.

A. flavomaculata Felt. Albany, Mar 16, reared from a clouded blister gall, yellow beneath and dirty white above, with a length of 2 cm. and a diameter of 1.2 cm., presumably on aster.

A. flavoscuta Felt. Albany, Jl 16.

A. laeviana Felt. Albany, Sep, reared from a greenish yellow blister leaf gall with a diameter of 1.75 cm. on *Aster laevis.*

A. marginata Felt. Albany, Aug 7, reared from a yellowish white or light brown blister leaf gall on *Aster paniculatus.*

A. modesta Felt. Albany, reared from small, oval swellings appearing much like arrested buds on the stems of horseweed (*Erigeron canadensis*). The species is probably common.

A. nitida Felt. Meadowdale, Ap 17, reared from a large, smooth, glossy, yellowish, oval, blister leaf gall 6–8 mm. in diameter, on the basal leaves of an aster.

A. paniculata Felt. Albany, Aug 10, reared from an oval, yellowish or brownish, blister gall on the leaves of *Aster paniculatus.*

A. pustulata Felt. Albany, reared from a small, pustulate swelling 4 mm. long and 2 mm. in diameter on the side of aster stems.

A. rosae Felt. Albany, May 16, reared from an oval, blister-like leaf gall with a diameter of 1 cm., occurring on *Solidago rugosa.* The species is probably widely distributed.

A. rubra Felt. Albany, Jl 21, reared from a more or less elongated blister leaf gall on *Solidago rugosa.* This species is probably widely distributed in the State and has been recorded from a number of localities in the US.

A. socialis Felt. Reared Jl 26 from the adherent type of leaf gall on *Solidago canadensis* inhabited by *Asphondylia monacha* O.S. and *Camptoneuromyia adhesa* Felt. Albany.

A. squarrosae Felt. Rhinecliff, Jl 20, reared from a grayish brown, black-margined, irregular blister leaf gall on *Solidago squarrosa.*

A. waldorfi Felt. Karner, reared in early May from a circular, brownish leaf gall with a diameter of 3 mm., on a somewhat hairy unknown species of Aster.

CLINORHYNCHA Loew

C. eupatoriflorae Felt. Albany, reared in late Aug from apparently normal florets of thoroughwort.

C. filicis Felt. Nassau, Je 24, on a fern.

C. karnerensis Felt. Albany, Jl 5, on willow.

C. millifolii Wachtl. Vic. Albany, Aug, reared from florets of yarrow.

CAMPTONEUROMYIA Felt

C. adhesa Felt. Adirondacks; Nassau; W. Nyack, common, reared in Jl from an oval cell formed by the adhesion of two Solidago leaves.

C. brevicauda Felt. Nassau, Albany, Jl–Aug.

C. hamamelidis Felt. Albany, Je 12, on witch-hazel.

C. flavescens Felt. W. Nyack, Jl 29, 30, reared from a closely adherent, pyriform, apical leaf gall on *Solidago graminifolia.*

C. fulva Felt. Albany, Jl 3, on Cornus.

C. virginica Felt. Albany, Je 12, on witch-hazel.

TROTTERIA Kieffer

T. argenti Felt. Albany, Jl 3, on New Jersey tea.

T. caryae Felt. Albany, Je 20, on hickory.

T. caudata Felt. Karner, Jl 5, on bush honeysuckle.

T. karnerensis Felt. Karner, Jl 5, on elder.

T. metallica Felt. Albany, Je 19, on hickory.

T. solidaginis Felt. W. Nyack, Jl 2, reared from Solidago material containing galls of *Camptoneuromyia adhesa* Felt and *Asphondylia monacha* O. S. This species has also been reared in association with *Asphondylia thalictri* Felt, and is probably zoophagous.

T. squamosa Felt. Albany, Jl 26, on New Jersey tea.

T. subfuscata Felt. Albany, Jl 17, on Solidago.

T. tarsata Felt. Albany, Jl 24, on scrub oak.

Tribe **OLIGOTROPHIARIAE**

PHYTOPHAGA Rondani

P. aceris Felt. Albany, May 21, on red maple.

P. azaleae Felt. Albany, May 18, on Azalea.

P. balsamifera Felt. L. Clear, Je 7, on balsam.

P. caudata Felt. Albany, May 9, on wild geranium.

P. destructor Say. THE HESSIAN FLY. Well known because of its occasionally very severe injury to wheat and barley, in particular. Is known to breed also in quack grass and Canadian rye grass. Generally distributed. Periodically destructive wherever wheat is grown. In Jefferson and St. Lawrence Counties, found in barley. One specimen found in Franklin Co.

P. electra Felt. Albany, May 18, on hazel.

P. fraxini Felt. Albany, Poughkeepsie, reared from leaf petioles of ash.

P. latipes Felt. Albany, Jl 6, on New Jersey tea.

P. rigidae O.S. Produces a characteristic beaked gall on willow. Appears to be widely distributed in the State, the adults appearing in early spring.

P. socialis Felt. Albany, Je 1, on early meadow rue.

P. thalictri Felt. Albany, Je 1, on early meadow rue.

P. tsugae Felt. L. Clear, Je 7, on hemlock.

P. ulmi Felt. Canandaigua; deforms the small terminal leaves or leaf buds of the American elm about NYC and probably occurs at Albany.

P. violicola Coq. THE VIOLET MIDGE. Has caused considerable injury in violet houses at Rhinebeck and presumably in other parts of the State.

P. virginiana Felt. Albany, May 23, on choke cherry.

JANETIELLA Kieffer

J. acerifolia Felt. Albany, May 17.
J. americana Felt. Albany, Jl 17.
J. breviaria Felt. Albany, May 21.
J. brevicornis Felt. Nassau, Je 14, on Solidago.
J. ligni Felt. Nassau, May 8, reared from larvae in decaying chestnut bark.
J. nodosa Felt. Albany, Ap 28.
J. parma Felt. Woodworth's L., Je 21, *Alex.*
J. pini Felt. Albany, May 26, on pine.
J. sanguinea Felt. Nassau, May 15.
J. tiliacea Felt. Westfield, May 23, on basswood.

OLIGOTROPHUS Latreille

O. betulae Winn. An introduced European species reared in 1886 from deformed white-birch catkins collected at Albany, the normal alate seed being transformed into a globose gall with rudimentary alae.
O. inquilinus Felt. Albany, Sep 11, reared from a large terminal rosette gall on Solidago.
O. salicifolius Felt. Karner, Mar–Ap, reared from irregular, yellowish, red-spotted leaf galls on *Salix humilis* collected in the preceding Sep; **LI:** Orient, Sep 22, from a gall, *Lath.*
O. vernalis Felt. Karner, May 19, on basswood.

RHOPALOMYIA Rübsaamen

R. abnormis Felt. Huguenot Pk., Jl 14, in a trap lantern.
R. albipennis Felt. Albany, Aug 9–14, reared from a large terminal rosette gall on *Solidago canadensis.*
R. anthophila O.S. Produces a more or less cylindric, densely haired, flower-bud gall which appears to be widely distributed and occasionally locally abundant. Canandaigua, Sep, and Kings Bridge, on Solidago; **LI:** Orient, Sep.
R. apicata Felt. Nassau, Jl 7, in a trap lantern.
R. arcuata Felt. Albany, Je 4.
R. asteriflorae Felt. Albany, Sep 25, from stunted, abnormally bunched heads of *Aster paniculatus.*
R. capitata Felt. Produces a conspicuous terminal rosette gall. Moderately common in vic. of Albany.
R. clarkei Felt. Undoubtedly occurs in the State, though no definite locality can be given.
R. fusiformis Felt. Produces a rather common, ribbed, fusiform gall about 6 mm. long on the young leaves and flower stems of the narrow-leaved Solidago. Moderately common about Albany.
R. hirtipes O.S. Appears to be very common and widely distributed. Definite records are: Elizabethtown; Canandaigua; Nassau. Sep. Produces a characteristic apical bud gall on aerial stems and a variable deformation of rootstock buds.
R. inquisitor Felt. Produces a gall very similar to that of *R. capitata* Felt.

R. lateriflori Felt. Produces a globose, axillary bud gall on *Aster lateriflorus*. L. George.

R. lobata Felt. W. Nyack, Jl 17, reared from a subglobular stem gall on the narrow-leaved Solidago.

R. major Felt. Huguenot Pk., May 31, in a trap lantern.

R. palustris Felt. Nassau, Je 7.

R. pedicellata Felt. Produces a stemmed, fusiform gall some 2 cm. long on the narrow-leaved Solidago. Rather common in vic. of Albany.

R. pini Felt. Albany, Je 4.

R. racemicola O.S. Produces a firm, greenish or reddish, subglobular flower-bud gall with a diameter of about 2 mm. Common about Albany and Poughkeepsie, and probably in other parts of NY. Canandaigua L., Sep, on *Solidago caesia*; **LI**: Orient, Sep, *Lath,* on Solidago.

R. solidaginis Lw. Probably occurs in the State, and *R. capitata* Felt may prove to be identical with it. Hudson Falls, Sep, on Solidago.

SACKENOMYIA Felt

S. acerifolia Felt. Albany, May 17.

S. viburnifolia Felt. Produces purplish, fusiform vein swellings 5 mm. long and 3 mm. in diameter on arrowwood. Albany; Nassau; **LI**: Orient, Sep, from gall, *Lath.*

Tribe ASPHONDYLIARIAE

SCHIZOMYIA Kieffer

S. altifila Felt. L. Clear, Je 7, found in sweeping blueberry.

S. caryaecola Felt. Hamburg, reared from a jar containing a long, conic leaf gall on bitternut, or swamp hickory.

S. coryloides Walsh & Riley. Produces a leafy apical gall on grape somewhat resembling a bunch of filberts or hazelnuts. Springwater, Aug, on grape; Nassau.

S. petiolicola Felt. Canadaigua, Aug; Watervliet, Feb; Westfield, Ap 24, reared from an oval or fusiform petiole or tendril gall on summer grape (*Vitis bicolor*).

S. pomum Walsh & Rly. Produces a subglobose, polythalamous, chambered bud gall on grape. Presumably generally distributed; Westfield; Hamburg; vic. Albany; vic. NYC.

S. rubi Felt. Karner, Jl 24, swept from high blackberry.

S. viburni Felt. Old Forge, Je 20.

ASPHONDYLIA Loew

A. azaleae Felt. Albany, Je 15–21, reared from unopened, brownish, fusiform buds of Azalea.

A. conspicua O.S. Produces an irregular, subglobular swelling of the flower heads some 5 mm. in diameter, and has been taken at Rensselaer; apparently the same species was captured in a trap lantern at Newport.

A. diervillae Felt. Albany, infesting the unopened buds of bush honeysuckle (*Diervilla trifida*).

A. eupatorii Felt. Canandaigua L.; Medina, Sep, reared by L. H. Weld from a green, fleshy stem gall on white snakeroot.

A. fulvopedalis Felt. Westfield, Jl 11, swept from Solidago.

A. globulus O.S. Produces a globose stem gall on sunflower. Vic. NYC; **LI:** Orient, Aug, *Lath*, on *Helianthus divaricatus*.

A. helianthiflorae Felt. Highland, Aug–Sep, reared from apparently unmodified flower heads of *Helianthus strumosus*.

A. ilicioides Felt. Old Forge, inhabiting oval, green, bud galls on *Ilicioides mucronata*.

A. monacha O.S. A common, widely distributed species producing a small apical rosette gall on Solidago or developing in dwarfed flower-heads of several species of Solidago and at least one species of Aster. Has been reared also from an oval gall developing between two adherent leaves of Solidago.

A. thalictri Felt. Distorts the seed capsules of Thalictrum. Albany; Nassau.

CINCTICORNIA Felt [97]

C. americana Felt. Albany, Ap, reared from slight, blister-like swellings on the lateral veins of red oak.

C. cornifolia Felt. Albany, May 18, on flowering dogwood.

C. multifila Felt. Albany, Je 1, swept from white oak. Presumably a rather common species.

C. pilulae Walsh. Canandaigua, Oct, from gall on oak; Mt. Kisco, Sep 4; Albany, Je 1, on Rhus; **LI:** Orient, Sep 22, on oak.

C. rhoina Felt. Produces a reddish brown, coarsely reticulated, subglobose leaf gall. Occurs rather commonly in vic. of Albany, is presumably widely distributed in the State, and certainly has a considerable range in the eastern US.

C. simpla Felt. Vic. Albany, reared from irregular, oval, pustulate leaf swellings 5 to 6 mm. in diameter on red oak.

C. transversa Felt. Albany, May 18. Probably occurs on oak.

Tribe ITONIDIDINARIAE

TOXOMYIA Felt

T. americana Felt. Woodworth's L., Aug 21, in a bog swamp, *Alex*.

LOBOPTEROMYIA Felt

L. abdominalis Felt. Albany, May 15, swept from pine.

L. apicalis Felt. Albany, May 18, on basswood.

L. caricis Felt. Karner, May 16, on sedge.

L. consobrina Felt. Karner, May 16, on fern.

L. filicis Felt. Karner, May 16, on ferns.

L. foetedi Felt. Karner, May 16, on skunk cabbage.

L. symplocarpi Felt. Karner, May 16, on skunk cabbage.

L. tiliae Felt. Karner, May 16, on basswood.

[97] Besides those here listed, there are undoubtedly a number of other species of this genus which occur in the State, some presumably undescribed, in addition to an excellent series of species which have been brought to light through the untiring labors of the late Miss Cora H. Clarke, of Boston.

CONTARINIA Rondani

C. **agrimoniae** Felt. Bath, Sep 3, reared from florets of *Agrimonia striata.*

C. **ampelophila** Felt. Albany, Ap 26, on grape.

C. **balsamifera** Felt. L. Clear, Je 7, very common about balsam trees.

C. **canadensis** Felt. Southern Hudson R. Val., abundant; a possible maker of the familiar turgid midrib gall on ash generally ascribed to *Cecidomyia pellex.*

C. **clematidis** Felt. Newport, Aug 12, reared from an irregular, subglobular gall on virgin's bower.

C. **divaricata** Felt. Albany, Je 21, on hard pine.

C. **flavolinea** Felt. Albany, Je 11.

C. **johnsoni** Sling. Appears to be generally distributed in the Chautauqua grape region, and occasionally causes rather serious injury by blasting the blossom buds of grapes.

C. **maculosa** Felt. Albany, Jl 17, on bittersweet.

C. **obsesa** Felt. Albany, May 9, in pine woods.

C. **perfoliata** Felt. Albany, Aug, reared from florets of thoroughwort.

C. **pyrivora** Riley. A pest of pears, well established in the Hudson R. Val.; New Baltimore, May.

C. **rumicis** Lw. Newport, Jl 18, reared from reddish or brown seeds of curled dock, *Yg.*

C. **sambucifolia** Felt. L. Clear, Je 7, on elder.

C. **trifolii** Felt. Albany, Je 1, on white clover.

C. **truncata** Felt. Albany, May 25.

C. **viatica** Felt. Albany, Je 9, on clover.

C. **virginianiae** Felt. Infests the fruit of choke cherry (*Prunus virginiana*), producing an enlarged bladdery condition. Appears to be widely distributed. Has been recorded from Bethlehem and Keene Valley, and is known from a number of New England localities.

THECODIPLOSIS Kieffer

T. **hudsonici** Felt. Poughkeepsie, Ap 19, on red cedar.

T. **liriodendri** O.S. TULIP SPOT GALL. Produces a dark, circular blister leaf gall on tulip. Canandaigua L., Sep; vic. Albany, sometimes common; Liverpool, Aug, *H.D.House*; Yonkers, Jl (Leon); Cornwall, Jl; Tivoli, Aug.

T. **mosellana** Gehin. Batavia, reared from wheat chaff; Troy, Je, on rye heads.

DENTIFIBULA Felt

D. **caryae** Felt. Albany, Je 19, on hickory.

D. **viburni** Felt. Albany, Je 11, on maple-leaved arrowwood.

Group TRIFILI

YOUNGOMYIA Felt

Y. **podophyllae** Felt. Albany, Je 11, on May apple.

Y. **producta** Felt. Karner, Jl 5, on bush honeysuckle.

Y. **rubida** Felt. Nassau, Je 29, on sedge.

Y. **umbellicola** O.S. Produces a conspicuous, globose enlargement of the blossoms of elder, and occurs generally in the State.

DICRODIPLOSIS Kieffer

D. androgynes Felt. Albany, Ap 28, on white pine.
D. annulata Felt. Albany, Jl 6, swept from goldenrod and aster.
D. borealis Felt. L. Clear, Je 7, on spruce.
D. insolens Felt. Keene Val., Aug 12, *Not.*
D. longicornis Felt. Nassau, Jl 9, in a trap lantern.
D. rubida Felt. Albany, Jl 16, on elder.

BREMIA Rondani

B. caricis Felt. Nassau, Je 15, on sedge.
B. filicis Felt. Karner, Je 26, swept from low ferns.
B. podophyllae Felt. Albany, Je 21, on May apple.
B. sylvestris Felt. Keene Val., Sep 15, *Not.*

APHIDOLETES Kieffer

A. basalis Felt. Albany, Oct 4, reared from tansy.
A. borealis Felt. Albany, Aug 7, reared from tulip leaves.
A. flavida Felt. Albany, Jl 24, on maple.
A. fulva Felt. Albany, Jl 17, on blackberry.
A. hamamelidis Felt. Albany, Je 27, on witch-hazel.
A. marginata Felt. Nassau, Jl 15.
A. marina Felt. **SI:** Huguenot Pk., Jl 14.
?**A. meridionalis** Felt. Rye, Aug, on sea lavender, *Bird.*
A. recurvata Felt. Keene Val., Sep 15, *Not.*

LOBODIPLOSIS Felt

L. acerina Felt. Appears to be widely distributed. Keene Val., Aug; Newport, Jl 25; Johnstown, Jl 20, *Alex*; Westfield, Jl 11, on red cedar; Nassau, Je 11; Albany, Je 15, on soft maple and choke cherry. Is very probably predacious, possibly aphidivorous.
L. borealis Felt. Keene Val., Sep 4, *Not.*
L. cincta Felt. Newport, Jl 23.

COQUILLETTOMYIA Felt

C. dentata Felt. Newport, Jl 18, observed in numbers hanging from cobwebs.
C. lobata Felt. L. Clear, Je 7, on blueberry.

FELTIELLA Ruebsaamen

F. acerifolia Felt. Albany, May (Felt). On elm and maple.
F. americana Felt. Geneva, Jl (Felt). On plum.
F. emarginata Felt. Nassau, Je (Felt); Newport; Keene Val., Sep, *Not.*
F. ithacae Felt. Ithaca, *Griswold* (Felt). On rose.
F. minuta Felt. Nassau, Je (Felt).
F. pini Felt. Albany, Je (Felt). On *Pinus rigida.*

KARSCHOMYIA Felt

K. viburni Felt. Keene Val., Aug 26, *Not*; Woodworth's L., *Alex*; Albany, Je 1, on sheepberry.

CLINODIPLOSIS Kieffer

C. examinis Felt. Nassau, Je 19, occurring by the hundreds on a screen door or hanging from cobwebs attached thereto.

C. florida Felt. Tarrytown, Je 13, on pear.

MYCODIPLOSIS Rübsaamen

M. acerifolia Felt. Albany, May 17.

M. aestiva Felt. Nassau, Je 25, in a trap lantern.

M. alternata Felt. Albany, Je 11, on May apple. Has been swept from sugar maple and white pine.

M. angulata Felt. Albany, Je 19, on hickory; Nassau; Poughkeepsie.

M. aurata Felt. Albany, Je 11, on maple-leaved arrowwood.

M. captiva Felt. Nassau, Je 10.

M. carolinae Felt. Keene Val., Aug 29, *Not*.

M. cerasifolia Felt. Ithaca, Aug, on Crataegus fruit.

M. cincta n. sp. Johnstown, Jl 11, *Alex*.

M. contracta Felt. Albany, Jl 24, on white pine.

M. coryli Felt. Albany, Je 12, on hazel.

M. corylifolia Felt. W. Nyack, Jl 23, reared from a fuzzy, wrinkled leaf fold gall on hazel produced by *Lasiopteryx coryli* Felt; Brooklyn, Sep 7, from black birch, *JJLevison*.

M. cyanococci Felt. Karner, Je 4, on blueberry.

M. emarginata Felt. Newport, on burdock; Nassau, Je 10.

M. fibulata Felt. Newport, Jl 23, in a trap lantern.

M. holotricha Felt. Albany, May, reared from hickory leaf galls supposed to be those produced by *Caryomyia holotricha* O.S.

M. hudsoni Felt. Albany, Je 10, on red maple.

M. impatientis Felt. W. Nyack, Je 19, reared from exposed larvae living on a fungus, *Aecidium impatientis*, occurring on the stems of snapdragon.

M. intermedia Felt. Keene Val., Aug 31, *Not*.

M. lenis Felt. Keene Val., Aug 31, *Not*.

M. minuta Felt. Nassau, Je 24.

M. modesta Felt. Nassau, Je 14.

M. obscura Felt. Albany, Je 11, on sugar maple.

M. packardi Felt. Round L., Je 24, reared from *Pinus strobus*.

M. perplexa Felt. Albany, Jl 16, on low blackberry.

M. pini Felt. Albany, Je 21, on hard pine.

M. populifolia Felt. Albany, Sep 3, reared from bullet-like swellings at the base of poplar leaves.

M. reducta Felt. Karner, Jl 5, on hard pine.

M. robusta Felt. Albany, Je 11.

M. rotundata Felt. Newport, Jl 20.

M. silvana Felt. Nassau, Je 14, on hemlock.

M. tenuitas Felt. Poughkeepsie, Je 14, in a trap lantern.

M. tsugae Felt. L. Clear, Je 7, on hemlock.

M. variabilis Felt. Keene Val., Sep 4, *Not*; Nassau, Jl 24.

PRODIPLOSIS Felt

P. floricola Felt. Albany, Aug 15, reared from somewhat enlarged, reddened flowers of the meadowsweet (*Spiraea salicifolia*); Karner, Aug 15, reared from enlarged blossoms of virgin's-bower (*Clematis virginiana*).

CARYOMYIA Felt

C. antennaria Wheeler. Little Falls, Sep, producing gall on *Antennaria plantaginifolia*.

C. antennata Felt. Produces one of the common hickory leaf galls. Albany and vic. Probably widely distributed.

C. caryae O.S. Produces a gall on hickory. Scarsdale, Jl; Hudson Falls, Sep; vic. Albany; Mt. Kisco, Jl 2; vic. NYC. Probably widely distributed.

C. caryaecola O.S. Produces a very slender, subglobose gall usually thickly clustered along the midrib of hickory leaves. Hamburg, Oct 17, on bitternut hickory. Appears to be relatively scarce.

C. consobrina Felt. Produces a small, thin-walled hickory leaf gall. Nassau.

C. glutinosa O.S. This is the name given to a larva living on the under surface of a hickory leaf, exposed except for the protection afforded by a viscid secretion. Vic. Albany and NYC, scarce.

C. holotricha O.S. Occurs commonly about Albany and NYC, and appears to be widely distributed.

C. inanis Felt. Nassau, Ap 29, reared from a hickory leaf gall having a more or less well-developed, empty chamber above the inhabited cavity.

C. nucicola O.S. Produces swellings in the green husks of shagbark hickory. Rhinebeck, Aug 9, 1860, *O.S.*

C. persicoides Bt. Produces a common, rather large, irregular, monothalamous, hairy gall on hickory, frequently 6 or 7 mm. in diameter and usually clustered along the midrib. Albany; Barrytown, on gall, Sep; vic. NYC; probably widely distributed.

C. sanguinolenta O.S. Vic. Albany and NYC, the galls being occasionally numerous.

C. similis Felt. Nassau, reared the latter part of Ap and in early May from supposedly typical galls of *Caryomyia caryae* O.S.

C. thompsoni Felt. Produces a yellow, green, or brown, melon-shaped gall with a depressed center, apparently taken by LHWeld at Ithaca.

C. tubicola O.S. Produces a characteristic, tubular, common hickory leaf gall which appears to be widely distributed throughout the State; Canandaigua L., Sep.

ARTHROCNODAX Rübsaamen

A. acerina Felt. L. Clear, Je 7, on maple.
A. cincta Felt. Albany, Je 13.
A. fenestra Felt. Nassau, Jl 22.
A. filicis Felt. Karner, Je 4, on fern; Nassau, Jl 9, in a trap lantern.
A. fraxini Felt. Albany, Je 10, on ash.
A. incisa Felt. Albany, May 21.
A. obscura Felt. Karner, Je 26, on blueberry.
A. rhoina Felt. Albany, Aug 27, reared from curled leafy heads of sumac.
A. rufa Felt. Albany, Jl 24, on hickory.
A. sambucifolia Felt. Albany, Sep 13, reared from rolled elder leaves.

HORMOMYIA Loew

H. alexanderi Felt. Johnstown, Jl 7, swept from palustral grasses, *Alex.*
H. americana Felt. Nassau, May 28 and 31, in a trap lantern. Appears to be fairly common.
H. canadensis Felt. Reared in early Ap from a subglobose, greenish or deep reddish, lipped leaf gall on shadbush. Fairly common in vic. of Albany.
H. clarkei Felt. L. Placid, inhabiting a terminal bud gall on *Spiraea salicifolia.*
H. consobrina Felt. Albany, Je 6, on Azalea.
H. crataegifolia Felt. Reared in early Ap from a cockscomb leaf gall on Crataegus. A very local species occurring in the vicinity of Nassau, though probably rather widely distributed; L. Placid Club, Jl; Newport, Jl, *GSGraves*; **LI:** Orient, Aug 12.
H. dilatata Felt. Newport, Je 27, in a trap lantern.
H. incisa Felt. Nassau, Jl 8, in a trap lantern.
H. maxima Felt. Johnstown, Je 8, swept from palustral grasses, *Alex.*
H. palustris Felt. Ithaca, May 20, captured in considerable numbers on a lake marsh.

MONARTHROPALPUS Rübsaamen

M. buxi Lab. A European species which has become well established in several LI localities and is best known because of its injury to the foliage of ornamental box. Westchester Co, Jan 9, *Atwood*; New Rochelle, May; **LI:** Mineola, Ap 2, larvae; Woodlawn Cemetery, Ap 16, larvae, *Bt*; Roslyn, May, Aug; Sea Cliff, Ap 8, *Levison.*

HYPERDIPLOSIS Felt

H. insolens Felt. Keene Val., Aug 26, *Not.*
H. lobata Felt. Karner, Je 4, on white clover.

GIARDOMYIA Felt

G. emarginata Felt. Newport, Jl 2, in a trap lantern.
G. hudsonica Felt. Poughkeepsie, Je 9, in a trap lantern.
G. menthae Felt. Karner, Jl 27, reared from mint (*Mentha canadensis*) bearing pustule-like galls on the stem.

G. montana Felt. Newport, Je 16, in a trap lantern; **SI**: Huguenot Pk., Jl 14.
G. noveboracensis Felt. Nassau, Je 10.
G. photophila Felt. Newport, Je 16, in a trap lantern.

METADIPLOSIS Felt

M. spinosa Felt. Albany, Jl 14, on quack grass.

EPIDIPLOSIS Felt

E. sayi Felt. Nassau, Jl 1.

LESTODIPLOSIS Kieffer

L. apocyniflorae Felt. Nassau, Aug 9, reared from apparently normal flower buds of dogbane.
L. asclepiae Felt. Highland and Albany, Aug, reared from rolled leaves of milkweed (*Asclepias Cornuti*).
L. asteris Felt. Albany, Jl 17, on aster.
L. basalis Felt. Albany, Jl 6, on New Jersey tea.
L. caliptera Fitch. Undoubtedly belongs to this genus though insufficiently characterized.
L. cerasi Felt. W. Nyack, Jl 26, reared from variable, oval or fusiform, twig swellings on wild cherry. The species is probably predacious.
L. cincta Felt. Albany, Jl 3, on New Jersey tea.
L. clematiflorae Felt. Karner, Aug 28, reared from unopened flowers of virgin's-bower (*Clematis virginiana*).
L. crataegifolia Felt. Bath, Jl 17, reared from an irregular, rather spiny gall on the upper surface of a Crataegus leaf. The species is probably predacious.
L. eupatorii Felt. Reared Sep 12 from globose galls in flower heads of *Eupatorium ageratoides*. South Bay; Glen L.; L. Champlain.
L. flavomarginata Felt. Albany, Je 1, on white clover.
L. hicoriae Felt. Nassau, Je 14, on hickory.
L. juniperina Felt. Nassau, Aug 7.
L. platanifolia Felt. NYC, Aug 1, reared from plane-tree leaves.
L. populifolia Felt. Albany, Jl 22, reared from a marginal leaf roll on poplar. The species is probably predacious.
L. rugosa Felt. Albany, Jl 15, reared from Solidago galls.
L. rumicis Felt. Newport, Jl 29, reared from curled dock seeds infested by *Contarinia rumicis*.
L. satiata Felt. Keene Val., Aug 28, *Not*.
L. scrophulariae Felt. W. Nyack, Aug 8, reared from distorted flower buds of *Scrophularia marilandica*.
L. solidaginis Felt. Albany, Aug 20, reared from a gall in association with *Rhopalomyia albipennis* Felt.
L. spiraeafolia Felt. Albany, Aug 23, reared from a thickened leaf fold on meadow-sweet, *Spiraea tomentosa*.
L. triangularis Felt. W. Lebanon, Aug 26, reared from Solidago leaves.
L. tsugae Felt. L. Clear, Je 7, on hemlock.
L. verbenifolia Felt. Karner, Jl 20, from rolled leaves of *Verbena urticaefolia*.

PARADIPLOSIS Felt

P. obesa Felt. L. Clear, Je 7, on hemlock.

PARALLELODIPLOSIS Rübsaamen

P. acernea Felt. Nassau, Je 14, on red maple.
P. carpini Felt. Albany, Je 21, on ironwood.
P. caryae Felt. Albany, Je 19, on hickory.
P. coryli Felt. Albany, Je 11, on hazel.
P. extensa Felt. Albany, Je 11, on locust (*Robinia Pseudo-Acacia*).
P. montana Felt. Newport, Jl 20, *Yg*.
P. pratensis Felt. Albany, Aug 6, on pine.
P. rubisolita Felt. Albany, Jl 24, on low blackberry.
P. rubrascuta Felt. Albany, Je, on ash.
P. spirae Felt. Produces a variable yellowish or reddish marginal leaf roll on *Spiraea salicifolia*. Albany.
P. subtruncata Felt. Albany, Jl 6, on Solidago.
P. triangularis Felt. Nassau, Jl 2 and 6.

OBOLODIPLOSIS Felt

O. robiniae Hald. (*orbiculata* Felt). Albany, Je 10, on black locust; Kingston; **LI**: Orient, Aug 25. Presumably widely distributed in the State.

ITONIDA Meigen

I. abdominalis Felt. Albany, Je 1, on hickory.
I. agraris Felt. Newport, Nassau, Je–Jl.
I. albotarsa Felt. Albany, Je 19, on hickory.
I. americana Felt. Poughkeepsie, Je 28, in a trap lantern.
I. antennata Felt. Albany, May 21.
I. aphidivora Felt. Nassau, reared in numbers from apple leaves infested by the rosy aphis.
I. apicalis Felt. Newport, Je 27, in a trap lantern, *Yg*.
I. apocyni Felt. Nassau, Aug 21, reared from unopened, apparently normal blossoms of spreading dogbane.
I. aprilis Felt. Among the early-appearing forms collected at Albany.
I. catalpae Comst. Albany, Jl.
I. claytoniae Felt. Albany, May 18.
I. emarginata Felt. Albany, May 17; Nassau, Je 30.
I. excavationis Felt. Albany, May 21, on soft maple.
I. explicata Felt. Albany, Jl 6.
I. flavoscuta Felt. Albany, May 21.
I. foliora Rssl. & Hkr. Produces a somewhat characteristic marginal leaf fold on certain oak leaves. Common and widely distributed in NY. Canandaigua, Jl 20; Hudson Falls, Sep.
I. fragariae Felt. Albany, Je 18, on strawberry.

I. hartmania Felt. Albany, Ap 15, near a decaying hickory stump.

I. hudsoni Felt. Poughkeepsie, Ap 19, on red cedar.

I. infirma Felt. Albany, Je 15, on Syringa.

I. nixoni Felt. Albany, Jl 6, on New Jersey tea.

I. opuntiae Felt. Reared from discolored, more or less decaying areas on various species of Opuntia collected in the NY Botanical Gardens at Bronx Pk.

I. paucifila Felt. Albany, Je 15, on Deutzia.

I. piperitae Felt. Nassau, Sep 4, reared from small, enlarged terminal buds on peppermint (*Mentha piperita*).

I. pugionis Felt. Nassau, May 4, reared from chestnut and maple bark infested with numerous *Miastor americana* Felt larvae.

I. putrida Felt. Reared from decaying birch wood inhabited by numerous larvae of *Bolitophila cinerea* Meign.

I. quercina Felt. Albany, Je 21, on swamp white oak.

I. ramuli Felt. Albany, May 25, reared from a small, monothalamous, almost imperceptible, twig enlargement on *Cornus paniculata.*

I. recurvata Felt. Poughkeepsie, Je 21, in a trap lantern.

I. ruricola Felt. Nassau, Je 15, on sedge.

I. sanguinia Felt. Nassau, Je 24, on fern.

I. setariae Felt. Albany, Aug 25, reared from seeds of the common fox-tail grass (*Alopecurus pratensis*).

I. spiraeaflorae Felt. Albany, Aug 27, reared from slightly enlarged, reddened flowers of *Spiraea salicifolia.*

I. tecomiae Felt. Albany, reared from larvae distorting and rolling leaves of the trumpet vine.

I. terrestris Felt. Poughkeepsie, Je 21, in a trap lantern.

I. tolhurstae Felt. Albany, Je 30, on sumac.

I. tritici Felt. Presumably the wheat midge, a well-known pest of wheat in earlier years and one widely distributed in this State and probably throughout the wheat-growing areas of the US. Belle Isle (NYS Rept 15).

I. verbenae Bt. Karner, Jl 20, from rolled terminal leaves of *Verbena urticaefolia.*

RETINODIPLOSIS Kieffer

R. albitarsis Felt. Round L., Je 24, reared from *Pinus strobus.*

R. inopis O.S. Produces obscure, subcortical swellings in the smaller branches of scrub pine (*Pinus rigida* and *P. virginiana*). Common in vic. of Albany. Presumably widely distributed.

R. resinicola O.S. THE PITCH MIDGE. The common, widely distributed species inhabiting exuding masses of pitch. The larvae are remarkable because of their living within this resinous medium. Karner; Mechanicville, Sep.

ODONTODIPLOSIS Felt

O. americana Felt. Albany, Jl 3 on alder, Jl 24 on low blackberry.

O. karnerensis Felt. Karner, May 16.

O. montana Felt. Newport, Jl 27, on hemlock, *Yg.*

ADIPLOSIS Felt

A. toxicodendri Felt. Nassau, Je 14, on poison ivy.

CECIDOMYIA [98]

C. balsamicola Lint. Deforms balsam leaflets. Is widely distributed. Adult has not been definitely connected with its food plant. ?North Creek, Aug.

C. bedeguar Walsh. Shushan, Je 14, gall on Crataegus.

C. boehmeriae Bt. Produces a fusiform stem swelling on nettle (Boehmeria), and is probably a species of Lasioptera. Shushan.

C. celastri Stebb. Probably identical with the species producing a subcortical stem swelling on Celastrus at W. Nyack.

C. citrina O.S. Produces variable petiole and twig swellings on linden. Rhinebeck. Apparently widely distributed in the State.

C. collinsoniae Bt. Produces a green, onion-shaped, pubescent swelling on the under side of the leaves of Collinsonia. Garrison. Probably widely distributed.

C. erubescens O.S. Produces a common marginal leaf fold. *Itonida foliora* Rssl. & Hkr. may prove to be a synonym.

C. eupatoriflorae Bt. Produces globose enlargements of the flower head of *Eupatorium ageratoides*. Vic. NYC.

C. fulva Bt. Produces a globular, succulent swelling of stem, petiole, or leaf. Recorded from Shushan. Probably widely distributed in the State. Has been provisionally referred to the genus Lasioptera.

[*C. grossulariae* Fitch. Inhabits gooseberries, and is presumably a NY species.]

C. impatientis O.S. Canandaigua, Aug 31; Newport, Aug, *Yg*. Appears to be common in the State. Inhabits a nearly globose, succulent swelling at the base of the flower of *Impatiens fulva*.

C. inimica Fitch. Observed by Dr. Fitch in wheat fields infested by the wheat midge.

C. majalis O.S. Produces a thin-walled, more or less wrinkled gall along the midrib of oak which may be identical with that from which *Clinodiplosis florida* Felt was reared. Moderately common in the State.

C. meibomiae Bt. Produces an elongate, fusiform, clustered bud growth on various species of tick trefoil. Vic. NYC. Probably widely distributed.

C. niveipila O.S. Produces a common swollen vein fold margined with a white pubescence, on various oaks. Hudson Falls, Je 6, on black oak and *Quercus prinus*.

C. nyssaecola Bt. Produces a narrow, marginal leaf fold on sour gum (*Nyssa sylvatica*). Vic. NYC, very common.

C. ocellaris O.S. Produces a common and widely distributed, circular, yellowish and red-margined discoloration on soft maple leaves.

C. pellex O.S. Produces a subglobular ash leaf gall, quite different from the gall usually considered as being produced by this species. Canandaigua, Je 4; southern Hudson R. Val., moderately common.

C. pinirigidae Pk. Produces deformed pine needles with a swollen base. The true gall-maker has not been reared. Moderately common on **LI** and in vic. of Albany.

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[98] The species of Cecidomyia are of uncertain generic location.

C. poculum O.S. Produces a moderately common, circular, flat stem gall on the leaves of post oak. Millbrook, Aug 24; NYC, Oct.

C. pudibunda O.S. Inhabits a red-tinged leaf fold on hornbeam. The gall is common and widely distributed.

C. serotinae O.S. Transforms the terminal buds on young shoots of wild cherry into globose, red-tinted swellings about the size of a cherry. Moderately common and widely distributed; **LI:** Fishers I., Jan 19, on gall.

C. tuba Stebb. Vic. Albany, scarce. Inhabits a slender, curved tube 10 to 16 mm. long and about 2 mm. in diameter, occurring on the leaves of *Cornus amomum.*

C. urnicola O.S. Produces an urn-shaped, subsessile, pale green, semitransparent, succulent leaf gall on *Urtica gracilis.* Ithaca; Trenton Falls. Probably widely distributed.

C. venae Stebb. Probably identical with *Lobopteromyia venae* Felt, a species recorded from Nassau.

C. verrucicola O.S. Produces a subglobular, green or brown, leaf gall on linden. Highland Falls, Nov 14; ?Newport, Jl 23. Widely distributed, and occasionally very abundant.

C. sp. Little Falls, Sep 10, galls on *Eupatorium ageratoides.*

C. viticola O.S. Produces an elongate, conical, reddish or green leaf gall on wild grape. Canandaigua, Oct 5; Highland, rather common. Probably widely distributed in the State.

C. sp. Hudson Falls, Jl 6, producing gall on *Laportea canadensis.*

FAMILY MYCETOPHILIDAE

SUBFAMILY BOLITOPHILINAE

BOLITOPHILA Meigen

B. cinerea Meig. Buffalo, May (MCV); Ithaca, May, Sep (Joh); Albany, Ap–May (Yg).

B. disjuncta Lw. Albany, May (Yg).

B. hybrida Meig. Wells, Jl (Yg); Little Valley, Jl (MCV); Albany, May; McLean, Je, *Sib* (Joh).

B. montana Coq. Ithaca, Sep (Joh).

PALAEOPLATYURA Meunier

P. johnsoni Joh. Ithaca, Je (Joh).

SYMMERUS Walker

S. lautus Lw. N. Evans, Jl (MCV); Little Valley, Je (MCV); Ithaca, Aug (Joh).

SUBFAMILY DIADOCIDIINAE

DIADOCIDIA Ruthe

D. ferruginosa Meig. Wells, Jl (Yg); Erie Co, May–Aug (MCV); Ithaca, Aug (Jn).

SUBFAMILY CEROPLATINAE

ASINDULUM Winnertz

A. montanum Roeder. Adirondacks, Aug (Joh); Speculator; Long L., Aug; Little Valley, Jl (MCV); Beaver Kill (CnJr); McLean, Sep, *Sib* (Joh); Oliverea (Beq).

CEROPLATUS Bosc

C. clausus Coq. S. Wales, Jl (MCV); Ithaca (Joh).

C. militaris Joh. Ithaca (Joh).

PLATYURA Meigen

P. diluta Lw. Ithaca; McLean, Jl (Joh).

P. elegans Coq. Ithaca, Jl (Joh); Yonkers (AM).

P. fascipennis Say. Little Valley, Je (MCV).

P. genualis Joh. Lancaster, Hamburg, Je (MCV); McLean, Jl, *Sib* (Joh).

P. inops Coq. Ithaca, Jl (Joh).

P. mendica Lw. Little Valley, Je (MCV); Ithaca (Joh).

P. mendosa Lw. Wells, Jl (Yg); S. Wales, Jl (MCV); Little Valley, Je (MCV); Ithaca (Joh).

P. moerens Joh. S. Wales (MCV).

P. subterminalis Say. Ithaca, Jl (Joh).

SUBFAMILY MACROCERINAE

MACROCERA Meigen

M. clara Lw. L. Placid, Je (Yg); Wells, Jl (Yg); S. Wales, Jl (MCV); Little Valley, Jl; Ithaca (Joh); Albany, May.

M. formosa Lw. Little Valley, Jl (MCV); Ithaca, Jl (Joh); Beaver Kill, Aug (CnJr).

M. geminata Joh. Buffalo, Je (MCV); Ithaca, Je (Joh).

M. hirsuta Lw. Mountain Lake, Je (Yg); Wells, Jl; S. Wales, Jl; Colden, Aug–Sep (MCV).

M. immaculata John. Niagara Falls, Je (Jn).

M. inconcinna Lw. Niagara Falls, Je (Jn).

M. nebulosa Coq. S. Wales, Jl (MCV).

SUBFAMILY SCIOPHILINAE

MONOCLONA Mik

M. elegantula Joh. Erie Co, Je–Sep (MCV); Ithaca, Aug (Joh).

EUDICRANA Loew

E. obumbrata Lw. Wells, Jl (Yg).

TETRAGONEURA Winnertz

T. bicolor Coq. Ithaca, Je (Joh).
T. pimpla Coq. Speculator (Yg); Gowanda, Je (MCV).

SCIOPHILA Meigen

(*Lasiosoma* Winnertz)

S. galbana Joh. Ithaca (Joh); Albany, Je (Yg).
S. galbana var. **socia** Joh. Wells, Je (Yg); Grand I., Je (MCV).
S. habilis Joh. Ithaca (Joh).
S. incallida Joh. Gowanda, Je (MCV); Ithaca (Joh).
S. novata Joh. Hamburg, Oct (MCV); Ithaca (Joh).
S. nugax Joh. Ithaca, Aug (Joh).
S. pallipes Say. Hamburg, Mar; Colden, Aug (MCV); Ithaca (Joh).
S. severa Joh. Ithaca, Jl (Joh).

PARATINIA Mik

P. recurva Joh. Old Forge, Aug (Joh).

POLYLEPTA Winnertz

P. obediens Joh. Wells, Jl (Yg); Colden, Aug (MCV).

EMPALIA Winnertz

E. tibialis Coq. McLean, Jl, *Sib* (Joh).

DIOMONUS Walker

D. magnificus Joh. Hamburg, Aug, S. Wales, Jl (MCV); Ithaca, Jl (Joh).
D. pulcher Joh. Axton, Je (Joh); McLean, *Sib* (Joh).
D. subcaeruleus Coq. Protection (MCV); foot of Cliff Mt., 3000 ft. (Beq).

NEOEMPHERIA Osten Sacken

N. balioptera Lw. Erie Co, Je (MCV); Ithaca, Jl (Joh).
N. illustris Joh. Ithaca (Joh); Poughkeepsie, Aug (Yg).
N. impatiens Joh. Boston, Sep (MCV).
N. indulgens Joh. Erie Co, Je, Jl (MCV); Ithaca, Jl (Joh).
N. macularis Joh. Cranberry Cr., Je (Yg); Hamburg, Jl (MCV); Ithaca (Joh).

MYCOMYA Rondani

M. appendiculata Lw. "NY" (Lw).
M. brevivittata Coq. Wells, Jl (Yg); Ithaca (Joh).
M. imitans Joh. Wells, Jl (Yg); E. Aurora, Sep (MCV); Ithaca (Joh).
M. incompta Joh. Ithaca (Joh).

M. littoralis Say. Old Forge; Wells, Jl; Erie Co, May–Sep (MCV); Ithaca, Jl (Joh); Albany, May (Yg).
M. maxima Joh. E. Aurora, Sep (MCV).
M. mendax Joh. Wells, Jl (Yg).
M. nigricauda Adams. S. Wales, Jl (MCV).
M. obliqua Say. Erie Co, Aug, Sep (MCV); Ithaca, Jl (Joh).
M. sequax Joh. Wells, Jl (Yg); Ithaca (Joh).

SUBFAMILY **MYCETOPHILINAE**

GNORISTE Meigen

G. megarrhina O.S. Ithaca, May, Je (Joh).

ACNEMIA Winnertz

A. flaveola Coq. E. Aurora, Aug (MCV); Ithaca (Joh).
A. psylla Lw. Niagara Falls, Aug (MCV); Ithaca, Aug, Sep (Joh).

RONDANIELLA Johannsen

R. abbreviata Lw. Colden, May, S. Wales, Jl (MCV); Ithaca (Joh); Albany, Ap (Yg).
R. sororcula Lw. "NY" (Lw).

LEPTOMORPHUS Curtis

L. ypsilon Joh. Ithaca (Joh).

BOLETINA Staeger

B. cincta Joh. Old Forge, Jl (Joh); S. Wales, Jl (MCV).
B. imitator Joh. Erie Co, May, Sep (MCV).
B. notescens Joh. Adirondacks, Aug; Ithaca, Je (Joh).
B. obscura Joh. Ithaca (Joh).
B. sciarina Staeg. Lancaster, Ap; Hamburg, Ap–Oct (MCV).
B. tricincta Lw. Niagara Falls, Je (Jn); Erie Co, Je, Aug (MCV); Ithaca, Aug (Joh).
B. unusa Garr. Ithaca (Garr), monotype.

LEIA Meigen

(*Neoglaphyroptera* Osten Sacken)

L. bivittata Say. Colden, Aug (MCV); Ithaca, Aug, Sep (Joh); Albany, Oct (Yg).
L. decora Lw. Ithaca, Je–Sep (Joh).
L. melaena Lw. Wells, Jl (Yg).
L. oblectabilis Lw. Ithaca, Jl–Sep (Joh).
L. opima Lw. Niagara Falls, Je (MCV); Erie Co, Je–Sep (MCV); Ithaca, Jl–Sep (Joh).

L. striata Will. Buffalo, Sep (MCV).
L. sublunata Lw. Erie Co, Je–Sep (MCV); Ithaca (Joh).
L. ventralis Say. Karner, Oct (Yg).
L. winthemi Lehmann. Saranac Inn; L. Tear, 4300 ft. (Beq); Erie Co, Je–Jl (MCV); Little Valley, Je (MCV); Ithaca, Je (Joh); Meadowdale, Aug (MCV).

PHTHINIA Winnertz

P. curta Joh. Ithaca (Joh).
P. tanypus Lw. Old Forge (Joh).

DOCOSIA Winnertz

D. dichroa Lw. Niagara Falls, Je (MCV); Hamburg, Colden, May (MCV); Ithaca, Je (Joh); New Baltimore, May (Yg).

SYNTEMMA Winnertz

S. polyzona Lw. McLean, Jl, *Sib* (Joh).

ANATELLA Winnertz

A. silvestris Joh. Wells, Jl (Yg); Ithaca, Mar, Aug (Joh).

TRICHONTA Winnertz

T. diffissa Joh. Ithaca, Aug (Joh).
T. patens Joh. Wells, Jl (Yg); Ithaca, May, Aug (Joh).
T. triangularis Joh. Wells, Jl (Yg); Ithaca (Joh).

CORDYLA Meigen

C. manca Joh. Ithaca (Joh).
C. recens Joh. Colden, Aug (MCV); Ithaca, Caroline, Je–Jl (Joh).
C. volucris Joh. Ithaca, Oct (Joh); Meadowdale, Oct.

BRACHYPEZA Winnertz

B. bisignata Winn. var. **divergens** Joh. Little Valley, Je (MCV).

RHYMOSIA Winnertz

R. captiosa Joh. McLean, Sep, *Sib* (Joh).
R. inflata Joh. Erie Co, Je, Sep (MCV); Ithaca, Oct–Nov (Joh).
R. serripes Joh. Ithaca, Aug (Joh).

ALLODIA Winnertz

A. actuaria Joh. Colden (MCV); Ithaca (Joh).
A. beata Joh. Wells, Jl (Yg); Ellis, Ithaca, Aug (Joh).
A. bulbosa Joh. Wells, Jl (Yg); Ithaca, Je (Joh).

A. crassicornis Stann. Wells, Jl (Yg); Niagara Falls, Sep (Joh); Ithaca, May, Jl.
A. falcata Joh. Wells, Jl (Yg); Rochester, Sep (MCV); Ithaca, Sep (Joh).

PHRONIA Winnertz

P. difficilis Joh. Wells, Jl; Ithaca, Aug (Joh); Albany, May (Yg).
P. insulsa Joh. Wells, Jl (Yg); Ithaca, Aug (Joh); McLean, *Claas* (Joh).
P. rustica Winn. Ithaca, Aug (Joh).
P. similis Joh. Wells, Jl (Yg); Ithaca, Sep (Joh).
P. venusta Joh. Albany, May (Yg).

TELMAPHILUS Becker

T. nebulosus Joh. Colden, Aug (MCV); Ithaca, Ap (Joh).

EXECHIA Winnertz

E. abrupta Joh. Ithaca (Joh).
E. absoluta Joh. Buffalo, Oct (MCV); Ithaca (Joh).
E. absurda Joh. Wells, Jl (Yg); Ithaca (Joh).
E. attrita Joh. Ithaca, Aug (Joh).
E. auxiliaria Joh. Ithaca (Joh).
E. bella Joh. Ithaca (Joh).
E. capillata Joh. Ithaca, May (Joh).
E. casta Joh. E. Aurora, Aug (MCV).
E. cincinnata Joh. Buffalo, Nov (MCV); Ithaca (Joh); Albany, May.
E. nexa Joh. Ithaca (Joh).
E. nativa Joh. Niagara Falls, Sep (MCV); Ithaca, Nov (Joh).
E. nugatoria Joh. Niagara Falls, Oct (MCV); Erie Co, May–Nov; Ithaca (Joh); Albany, May (Yg).
E. nugax Joh. Ithaca, Aug (Joh).
E. quadrata Joh. Ithaca, Aug (Joh).
E. repanda Joh. Ithaca, Aug (Joh).
E. satiata Joh. Ithaca (Joh).
E. umbratica Ald. Wells, Jl (Yg); Ithaca (Joh).

DYNATOSOMA Winnertz

D. errans Garr. Ithaca, Jl (Garr).
D. fulvida Coq. Ithaca, Je (Joh).
D. bifasciata Walk. (*nigrina* Joh.). S. Wales, Jl (MCV).
D. placida Joh. Niagara Falls, Aug (MCV).

OPISTHOLOBA Mik

O. ocellata Joh. Wells (Yg); Ithaca, Aug (Joh).

EPICYPTA Winnertz

E. trinotata Staeg. Ithaca, Je–Aug (Joh).

MYCOTHERA Winnertz

M. fenestrata Coq. Buffalo, Mar, May (MCV).
M. fenestrata var. **praenubila** Joh. Ithaca, Ap (Joh).
M. impellans Joh. Ithaca, Aug (Joh).
M. paradoxa Joh. Wells, Jl (Yg); Ithaca (Joh).
M. paula Lw. Wells, Jl; Ithaca, Oct (Joh); Albany, May (Yg).
M. recta Joh. Wells, Jl (Yg); Ithaca, Aug (Joh).

MYCETOPHILA Meigen

M. bipunctata Lw. Erie Co, May–Jl; Niagara Falls, Sep (MCV); Ithaca, Je–Aug (Yg).
M. edentula Joh. Wells, Jl; Albany, May (Yg).
M. edura Joh. Ithaca, Aug (Joh).
M. extenta Joh. Ithaca, Ap (Joh); Albany, May (Yg).
M. exusta Joh. Colden, May (MCV).
M. falcata Joh. Ithaca, May (Joh).
M. fastosa Joh. Wells, Jl; Albany, May (Yg); Ithaca (Joh); S. Wales, Jl (MCV).
M. foecunda Joh. Ithaca, Nov (Joh).
M. ichneumon Say. Niagara Falls, Je (Jn).
M. imitator Joh. Hamburg, Ap (MCV); Ithaca (Joh).
M. inculta Lw. Ithaca, May–Aug (Joh).
M. jucunda Joh. Ithaca, Aug (Joh).
M. lenta Joh. Wells, Jl; Albany, May (Yg).
M. monochaeta Lw. Colden, Aug (MCV).
M. mutica Lw. Wells, Jl (Yg); Erie Co, May, Je (MCV).
M. perita Joh. Ithaca, Jl (Joh).
M. perlonga Joh. Wells, Jl; Ithaca, Aug (Joh); Albany, May.
M. polita Lw. Colden, Aug (MCV); Ithaca, Jl (Joh).
M. procera Lw. "NY" (Lw).
M. propinqua Wlk. "NY" (Wlk).
M. punctata Meig. Axton, Je; Erie Co, May–Nov (MCV); Ithaca, Jl (Joh).
M. quatuornotata Lw. Erie Co, Je–Oct (MCV).
M. scalaris Lw. Niagara Falls, Je; Erie Co, May, Aug; Rochester, Sep (MCV); Ithaca, Je–Oct (Joh).
M. socia Joh. Ithaca, Aug (Joh); Albany, May (Yg).
M. trichonota Lw. Ithaca, Jl, Aug (Joh); Albany, May (Yg).

DELOPSIS Skuse

D. anomala Joh. Hamburg, May (MCV); McLean, May; Ithaca, Aug (Joh).

PNYXIA Johannsen

P. scabiei Hopk. Rhinebeck (Joh).

SCEPTONIA Winnertz

S. nigra Meig. Wells, Jl (Yg); Colden, May (MCV); Ithaca, Aug (Joh).

ZYGOMYIA Winnertz

Z. ignobilis Lw. Wells, Jl (Yg); Ithaca (Joh).
Z. ornata Lw. Colden, May (MCV); Ithaca, Aug (Joh).
Z. varia Staeg. Wells, Jl (Yg).

FAMILY SCIARIDAE

EUGNORISTE Coquillett

E. occidentalis Coq. Manlius; Ithaca (Joh).

TRICHOSIA Winnertz

T. hebes Lw. Ithaca, Jl (Joh).

ZYGONEURA Meigen

Z. flavicoxa Joh. Ithaca, Jl (Joh).

SCIARA Meigen

(Including *Neosciara* Pettey)

S. actuosa Joh. Niagara Falls, Oct; Erie Co, May, Je (MCV); Freeville, Ithaca, May, Jl (Joh).
S. agraria Felt. Albany (CnJr).
S. caldaria Lint. Ithaca (Joh).
S. coprophila Lint. Erie Co, Ap–Sep (MCV); Ithaca, Aug (Joh); Albany, Mar; **LI:** Glen Cove, Je.
S. diluta Joh. Freeville; Ithaca, Jl (Joh).
S. dolens Joh. Tompkins Co, Je (Joh).
S. dux Joh. Ithaca, Je (Joh).
S. fatigans Joh. Ithaca (Joh).
S. femorata Say. Niagara Falls, Je (Jn); N. Evans, May (MCV).
S. fuliginosa Fitch. "NY" (Fitch); Erie Co, May, Je (MCV).
S. fumida Joh. Ithaca, Aug (Joh).
S. habilis Joh. Hamburg, May, Boston, Sep (MCV); Ithaca, Je (Joh).
S. hastata Joh. Tompkins Co, Je, Jl (Joh).

S. impatiens Joh. Ithaca (Joh).
S. inconstans Fitch. Albany, Je (Fitch).
S. johannseni End. (*nigricans* Joh.). Hamburg, Oct (MCV); Ithaca, May, Aug (Joh).
S. jucunda Joh. Niagara Falls, May (Joh); Ithaca, Je–Aug.
S. lurida Wlk. Trenton Falls (Wlk).
S. mali Fitch. "NY" (Fitch).
S. mellea Joh. Ithaca, Je (Joh).
S. mutua Joh. N. Evans, May (Joh); Ithaca, Je.
S. nacta Joh. Ithaca (Joh).
S. ocellaris Cmstk. Lancaster, Buffalo (Joh).
S. ochrolabis Lw. Ithaca, Je, Aug (Joh).
S. pauciseta Felt. Ithaca, Jl–Oct (Joh); McLean, Ap, *Claas* (Joh).
S. parilis Joh. Ithaca (Joh).
S. prolifica Felt. Erie Co, May–Sep (MCV); Ithaca, Ap, Aug (Joh).
S. sciophila Lw. Ithaca, Jl–Oct (Joh).
S. silvestrii Kieff. "NY" (Kieff).
S. similans Joh. **LI:** Cold Sp. Harb., *Metz* (Joh).
S. trivialis Joh. Ithaca, Aug (Joh); Bronx Pk.
S. varians Joh. Ithaca (Joh).
S. vicina Joh. Ithaca, Jl (Joh).
S. vulgaris Fitch. Karner, Oct.

FAMILY **BIBIONIDAE**

PLECIA Weidemann

P. heteroptera Say. Saranac L., Sep, *Ds* (Leon); Hamburg, Oct, Buffalo, Oct, *MCV* (Jn); Ithaca, Oct (Joh); McLean, Sep, *Sib* (Joh); Hebron, Sep, *Ds* (Leon); Debruce, Sep, *Ds*; Oliverea, Sep (Leon); West Pt., *Nic*; Ft. Montgomery, *Schott*.

BIBIO Geoffroy

B. abbreviatus Lw. W. Nyack, *Ols* (Beq).
B. albipennis Say. Adirondacks, Je (Joh); Erie Co, *MCV*; Ithaca, common, May, Aug; New Baltimore; Suffern (AM); Dunwoodie (AM); **SI** (Beq); **LI:** Huntington, Rockaway Beach, Wading R., Yaphank, *Ds* (Jn), May.
B. basalis Lw. Mt. Marcy, 5344 ft. (Beq).
B. femoratus Wied. Mt. Whiteface, summit, Jl, *Ds* (Leon); Axton, Je; Newport, May; Hamburg, May, *MCV* (Jn); Tompkins Co, May (Jn); White Plains, *Bno* (Beq); **LI:** Rockaway Beach, *Ds* (Leon); Orient, May, *Lath*; Wyandanch, May.
B. fraternus Lw. Tompkins Co (HHS).
B. fumipennis Wlk. Newport, May, *Yg* (NYS).
B. longipes Lw. Niagara Falls, Oct (MCV); Greene Co, *How* (Ald); McLean, Aug, *Sib* (Joh).
B. xanthopus Wied. Axton, Je (M&H); Poughkeepsie, May, *Yg* (NYS); Ithaca, May, Oct (Joh); **SI,** May, *Ds* (Leon); **LI:** Rockaway Beach, May, *Ds* (CnJr).

DILOPHUS Meigen

D. breviceps Lw. L. Tear, 4600 ft. (Beq); Erie Co, Sep, Oct, *MCV* (Jn).
D. spinipes Say (*dimidiatus* Lw.). "NY" (Lw).
D. serraticollis Wlk. Axton, Je (Joh); McLean, Sep, *Sib* (Joh).

FAMILY SCATOPSIDAE

SCATOPSE Geoffroy

S. notata L. Ithaca, May (Joh).
S. pygmaea Lw. Erie Co, Mar, Jl, *MCV* (Jn); Ithaca, Mar (Joh).

RHEGMOCLEMA Enderlein

R. atrata Say. Buffalo, Mar, Oct, *MCV* (Jn); Saratoga Sps., Ap; Albany, Sep; Ithaca, Jl (Joh).

SWAMMERDAMELLA Enderlein

S. brevicornis Meig. Ithaca, May (Joh).

FAMILY SIMULIIDAE

PROSIMULIUM Roubaud

P. hirtipes Fries. L. Tear (Beq); Axton, Je; Erie Co, May (MCV); Ithaca, May, Je (Joh); McLean, Jl, *Sib* (Joh); Albany, Jl (NYS); Hillburn, *Schott* (Beq); W. Nyack (Beq); **SI** (Beq).

EUSIMULIUM Roubaud

E. bracteatum Coq. S. Wales (MCV); Ithaca, Oct (Joh).
E. johannseni Hart. Axton, Je (Joh).

SIMULIUM Latreille

S. parnassum Mall. Plattsburg, Aug, *Dy* (Dy&Snn).
S. pictipes Hagen. Ausable R., Aug; Erie Co, May–Aug (MCV); Ithaca, Je–Aug (Joh).
S. piscicidium Rly. Mumford (Rly).
S. venustum Say. L. Tear, 4600 ft. (Beq); Adirondacks, Je–Aug; Colden, May (MCV); Ithaca, Je (Joh); McLean, Jl (Joh); Wilmuth.
S. vittatum Zett. Axton, Je (Joh); Niagara Falls (Mall); Hamburg, May (MCV); Ithaca, Oct; E. Schodack, May.

FAMILY BLEPHAROCERIDAE

BLEPHAROCERA Macquart

B. tenuipes Wlk. Adirondacks, Je; Watertown; Colden, Jl (MCV); Ithaca, Je–Jl (Joh).

FAMILY **XYLOPHAGIDAE**

Compiled by M. D. LEONARD

SUBFAMILY **XYLOPHAGINAE**

XYLOPHAGUS Meigen

X. fasciatus Wlk. (*abdominalis* Lw.). Albany, May 15, *Yg*.

X. lugens Lw. Niagara Falls, May (MCV); Syracuse, *Blkm* (Hine); Ithaca, Ap; McLean, May; Slide Mt., Je 3, *Leon*; Albany, May 2, reared from under dead bark (Felt); Nassau, Ap 19, reared from under pine log (Felt); Mosholu, May 4, *Ds*; **SI**, Ap, *Ds*; **LI**, Ap 28; Queens, May, *Ols*; Flatbush; Bellport; Cypress Hills.

X. reflectens Wlk. (*rufipes* Lw., *persequus* Walk.). Mt. Seward, Je 22, 4500 ft., *M&H*; Axton, *M&H* (Joh); L. Tear, Jl 29, 4300–4600 ft., *Beq*; Ithaca, W. Danby, May; W. Winfield, Je 7, *Leon*; Slide Mt., Catskills, Je 3, *Leon*; Big Ind. Val., May–Je, *Pears*.

SUBFAMILY **ARTHROCERATINAE**

SOLVA Walker

(*Xylomyia* Rondani)

S. aterrima John. Rochester Jct., Jl 9 (Leon); N. Evans, Jl 4 (MCV); Irving, Jl 22 (MCV); Ithaca, Jl 12, *JLFrank*.

S. pallipes Lw. Ithaca, May–Aug; Karner, Je; Albany, Je, *Yg*; Clinton Hgts., Je 13, *Yg*; Kingston, Je 9; Poughkeepsie, Aug; Big Ind. Val., Je, *Pears*; Shandakin, Je 3, *Leon*; White Plains, Je 4; **SI**, Je, *Ds*; **LI**: Flatbush, Lott Wood, Je–Jl, *Zab*; Cold Sp. Harb., Jl 25; Flushing, May 25, *Beq*; Sea Cliff, *Bks*.

S. tenthredinoides Wulp. Niagara Falls, Je 9 (MCV); S. Wales, Je 22 (MCV); Ithaca, *Joh*; Poughkeepsie, Je 3, *Yg*; NYC, Je 12; **SI**: Richmond Hill, Jl 3.

ARTHROCERAS Williston

A. leptis O.S. Mt. Marcy, Jl 31, 1913, *Felt*; L. Tear, Jl 20, *Beq*.

GLUTOPS Burgess

G. singularis Burgess. Ithaca, Ap 14, 1922, male, McLean, 1924, female (Joh).

FAMILY **COENOMYIIDAE**

Compiled by M. D. LEONARD

COENOMYIA Latreille

C. ferruginea Scop. Olcott, Je 5, *Dt*; Southfields (Beq); Protection, Je 8 (MCV); Ithaca, Je 22, *SHEmerson*; Pike; Labrador L., Je 9, *Leon*; Albany, May; West Pt., Je, *Ds*; Ft. Montgomery, May, *Ds*; Ramapo, May–Je, *Ds*; Suffern; Pearl R., May 31, *EEWatson*; **LI**: Wading R., Je, *Ds*.

ARTHROPEAS Loew

A. americana Lw. L. Placid, Aug 7; Brant L. (Coq).

FAMILY STRATIOMYIIDAE

ALLOGNOSTA Latreille

A. brevicornis Jn. L. Tear, 4600 ft., *Beq* (Jn).

A. fuscitarsis Say. Fulton Co; Trenton Falls; Erie Co, May–Jl (MCV); Little Valley (MCV); Ithaca and vic., May–Aug (Hine); Albany; Kiamesha (Mel); White Plains (Beq).

A. obscuriventris Lw. Ithaca and vic., Je–Jl (Hine); Catskills, Je (AM); Poughkeepsie, Je.

A. similis Lw. "NY" (Lw); Catskills, Je (AM).

ACTINA Meigen

(*Hemiberis* Enderlein, *Allactina* Curran)

A. viridis Say. Axton (Joh); Elba, Je (MCV); Oswego; Niagara Falls, May–Je (Hine); Erie Co (MCV); Little Valley, May–Je (MCV); Ithaca and vic.; Fulton Co; Catskills, Je (AM); Karner (NYS); Pine I. (Beq).

SCOLIOPELTA Williston

S. luteipes Will. Upper Ausable L., Jl (Beq).

HERMETIA Latreille

H. illucens L. **SI**, *Bs* (Beq).

PTECTICUS Loew

P. sackeni Will. Essex Co, Jl (NYS); W. Nyack, Jl, *Bs*.

P. trivittatus Say. Ithaca (Hine); **SI**: Richmond, Aug (Bs); New Brighton, Je (Bs); **LI**: Sheepshead Bay, Aug (NYS); Flatbush, *Schott* (Beq); Sands Pt., Sep (Bs).

CHRYSOCHROMA Williston

C. nigricornis Lw. Norton's Landing, Cayuga L. (OS).

PEDICELLA Bigot

(*Macrosargus* Bigot)

P. clavis Will. Ithaca, Ap–Je (Joh); Brooklyn, Je (Beq).

SARGUS Fabricius (not Klein)

(*Geosargus* Bezzi)

S. cuprarius L. Old Forge, Je; Niagara Falls, Je (Joh); Erie Co, Ap–Sep (MCV); Ithaca (Joh); Catskills, Je (AM); **SI**: Arlington, Aug, *Bs*; Richmond, *Bs*; Arrochar, Jl, *Bs*; **LI**: Sands Pt., Jl, *Bs*; Flushing (Beq); Central Pk. (Beq); Aqueduct, *Eng* (Beq); Queens, *Schott* (Beq); Glendale, Je, *Bs*.

S. decorus Say. L. Tear, Jl (Beq); Fulton Co; Manlius; Niagara Falls, Je (Jn); Erie Co, May–Aug (MCV); Ithaca (Hine); Trenton Falls; Catskills, Je (AM); Albany, May (NYS); Kiamesha (Mel); **SI:** Scrub Oak, Aug (Bs); **LI:** Greenport, May; Sands Pt., Sep (Bs); Cold Sp. Harb., Aug (Bs).

S. elegans Lw. Erie Co, Je–Aug (MCV); Ithaca (Hine); **LI:** Sands Pt., Jl, *Bs* (Beq).

S. viridis Say. Fulton Co; Oswego, May; Niagara Falls, Je (Jn); Erie Co, Ap–Je (MCV); Ithaca (Hine); Albany (NYS); **LI:** Rockaway Beach (Jn); Huntington, *Schott* (Beq); Flatbush, May, *Zab* (AM).

MICROCHRYSA Loew

M. polita L. Oswego, Je (Jn); Erie Co (MCV); Ithaca, Je (Hine); Albany (NYS); Poughkeepsie; **LI:** Brooklyn (Beq); Sands Pt., Jl (Bs); Flatbush, Jl (AM).

STRATIOMYIA Geoffroy

S. apicula Lw. Lewiston, Little Valley, May–Je (MCV).

S. badia Wlk. Old Forge; Woodhull L., Aug (Jn); Olcott, Aug (MCV); Erie Co, May–Je (MCV).

S. discalis Lw. Fulton Co; Erie Co, Je (MCV); Ithaca, Jl (Hine); Karner, May; Poughkeepsie (NYS); **SI:** (NYS); Moravian Cemetery, May (Bs); **LI:** Astoria (AM); Brooklyn, *Eng* (Beq); Maspeth (Beq); E. New York, *Schott* (Beq); Rockaway Beach (Jn).

S. lativentris Lw. Buffalo (Jn); E. Aurora, Je (MCV); Ithaca, Je (Hine); Woodhull L., Aug.

S. meigenii Wied. Erie Co, May–Je, Lewiston, Je (MCV); Ithaca (Hine); Albany, Aug (NYS); Woodworth's, Jl; Forest Lawn, Jl, *Zab* (AM).

S. norma Wied. Erie Co, Jl, Aug (MCV); Ithaca (Hine); **LI:** Astoria (AM), as *normula.*

S. normula Lw. Long L., Aug (NYS); Niagara Falls; Buffalo, Je (Jn); E. Aurora, Je (MCV); Ithaca (Joh).

S. quaternaria Lw. Ithaca, May (Hine).

ODONTOMYIA Meigen

O. cincta Oliv. Johnstown (NYS); Manitou Beach, Je, *Zab*; Buffalo, Je (Jn); Ithaca (Joh); **SI:** Watchogue, Je (Bs); Stony Pt., Je (AM); **LI:** Flatbush, Je, *Zab*; Long Beach (Beq); Maspeth, Rosedale, Flushing, *Schott* (Beq).

O. flavicornis Oliv. "NY" (Lw).

O. hydroleonoides Jn. McLean, Jl (Joh).

O. interrupta Oliv. Fulton Co (NYS); Springville, Je (MCV); Ithaca, Je (Hine); Trenton Falls; Albany; Poughkeepsie, May–Jl; White Plains, *Bno* (Beq); **SI:** Moravian Cemetery, and Watchogue, May (Bs); **LI:** Wading R., May, *Ds* (Jn); Long Beach, Jl (Bs).

O. microstoma Lw. **LI:** Jamaica, Long Beach, *Eng* (Beq); Kings Pk., Jl, *Bell* (Ds or Bs).

O. pallipes Wlk. "NY". Not recognized.

O. pilimanus Lw. E. Aurora, Jl, Colden, Aug (MCV).

O. pubescens Day. Oswego, May (Jn); Lewiston, May, Je (MCV); Erie Co; McLean; Albany (NYS); Fulton Co; **SI** (Beq); **LI**: Long Beach (Beq); Wading R., May, *Ds* (Jn).

O. vertebrata Say. Buffalo, Je (MCV); Norton's Landing, Cayuga L. (OS); Albany, Je (NYS); **LI**; Maspeth (Beq).

O. virgo Wied. Erie Co, Je–Jl (MCV); Pike, Je (NYS); Canandaigua L., Jl; Ithaca, Je (Hine); Trenton Falls; Catskills, Je (AM); Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); White Plains, Je (Beq); Stony Pt., Je (AM); **LI**: Maspeth (Beq).

EUPARYPHUS Gerstaecker

E. bellus Lw. Johnstown, *Alex*; Hamburg, May (Jn); Albany, May (NYS).

E. brevicornis Lw. Niagara Falls, Je (Jn); N. Evans, Jl (MCV); Rock Glen, Jl (MCV); Ithaca (Joh).

E. greylockensis Jn. Ithaca (Joh).

E. stigmaticalis Lw. Ithaca, Jl (NYS).

E. tetraspilus Lw. Erie Co, Je–Jl (MCV); Ithaca, Je (Joh).

NEMOTELUS Geoffroy

N. canadensis Lw. **LI**: Sands Pt., Je (Bs).

N. carbonarius Lw. Erie Co, Je–Jl (MCV); Ithaca, Je; Johnstown, May (NYS).

N. melanderi Bks. "NY."

N. unicolor Lw. Ithaca, May, Je (Hine).

OXYCERA Meigen

O. approximata Mall. Ithaca, Je (Beq–Bs).

O. maculata Oliv. Niagara Falls, Je (Jn); Erie Co, Je–Jl (MCV); Ithaca (Hine); Johnstown.

BERKSHIRIA Johnson

(*Johnsonomyia* Malloch 1915, not Felt 1908)

B. aldrichi Mall. Ithaca, Je (Joh).

PACHYGASTER Meigen

P. pulcher Lw. Albany, Je (NYS); West Pt. (Mall).

NEOPACHYGASTER Austen

(*Veppo* Latreille?)

N. maculicornis Hine. Ithaca, Jl, *MacG* (Mall).

ZABRACHIA Coquillett

Z. polita Coq. Saranac Inn, Aug (Coq).

FAMILY TABANIDAE

BUPLEX Austen

(*Pangonia* auct. not Latreille)

B. pigra O.S. "NY" (OS).

B. rasa Lw. Speculator, Aug (NYS); Old Forge, Jl; Ithaca, Jl–Aug; McLean, Jl.

B. tranquilla O.S. N. Elba, Jl; Old Forge, Jl (Hine–NYS); Long L., *Ds*; Woodhull L., Aug, *EJLove* (Johns); McLean, Jl; Catskills (AM); Ramapo, Je 12, *Ds*.

GONIOPS Aldrich

G. chrysocoma O. S. Trenton Falls; Batavia, Jl; Little Valley (MCV); Ithaca, Aug (Joh); Covert (CU).

CHRYSOPS Meigen

C. brimleyi Hine. **SI.**

C. brunneus Hine. N. Fair Haven, Jl; Lakeside Pk., Aug; Rochester, Jl.

C. callidus O. S. Clyde, Jl 21, *Bish* (Leon); Naples, Jl 31, *Bish* (Leon); Erie Co; Gowanda, May–Jl, *MCV*; Ithaca (Joh); Kenwood, Albany, Jl 5 (Leon); Voorheesville, Je 19 (Leon); Poughkeepsie, Jl 1 (Leon); Franklin, Je 20 (*Leon*); West Pt., *Ds*; Mosholu; Van Cort. Pk. (Osb); Pine I., *Ds*; Stony Pt., *Ds*; **SI:** Richmond, Je 16 (*Leon*); **LI:** Cold Sp. Harb., Aug (Hine).

C. carbonarius Wlk. (*fugax* O. S.). Axton (Joh); Chapel Pond, Essex Co, Je 28, *Bish* (Leon); Keene Val., Je–Jl (Leon); Old Forge, Je 2 (Leon); Big Moose, Jl 24 (Leon); Saranac Inn, Je (Leon); Chazy L., Je 25 (Leon); Mt. McIntyre, May 30 (Leon); Hamilton Co, *Ds*; Thompson, May 25 (*Leon*); Erie Co, May–Je, *MCV*; Ithaca and vic. (Hine); Corinth, Je 2, *Yg* (Leon); Easton, May 25 (*Leon*); Rensselaer, May 30 (Leon); Albany, Je 7 (Leon); Karner, May 29 (Leon); Coeymans, Je 15 (Leon); Thacher Pk., Albany Co, May 2 (*Leon*); Cropseyville, May 23 (Leon); Big Ind. Val., May–Je, *Pears*; Oliverea, *Ds*; Slide Mt., Catskills, Je 3 (*Leon*); West Pt., *Ds*; Greenwood L. (Hine); Mosholu, Je (Hine).

C. celer O. S. Old Forge, Jl; L. Placid, Je 27; Honeoye Falls, Je (Leon); Elba, Je (MCV); Niagara Falls, May–Je (Jn); Erie Co, May–Je (MCV); Ithaca, Je; Cooperstown, Je; Valley Falls, Je 19; Nassau, Je (NYS); Voorheesville, Je 19, *Leon*; West Pt., Je, *Ds*; Pine I., Je 19, *Ds*; Katonah, Je, *Bt*; Ramapo, Je, *Ds*; Mosholu, Je 11, *Ds*; NYC (Osb); **LI**, Je (Jn).

C. cuclux Whitn. Peru, Je; Axton, Je; Laborador L., Je; Wells, Je 30, *Yg*; Johnstown, May 31 (Leon); Genesee Co, Je 25, *Ds*; Hamburg, May–Je; Ithaca, Je (Hine); McLean, May; Albany, Je 4, *Bish*; Voorheesville, Je 19, *Leon*; Thacher Pk., Albany Co, May 27, *Leon*; Karner, May 9 (Leon); Rensselaer, May 30, *Leon*; Hudson R. Val.; Poughkeepsie, Je 3 (Leon); West Pt., Je 18, *Ds*; Mosholu, Je (Hine).

C. cursus Ald. (*cursim* Whitn.). "NY".

C. delicatulus O. S. Big Moose, Jl 3 (NYS); N. Fair Haven, Jl; **LI:** Wading R., Je (Jn).

C. dimmocki Hine. Grand I., Erie Co, Je (Jn); **SI**, Je 20, Jl 12, *Ds*; **LI:** Southampton, Jl (NYS).

C. excitans Wlk. Axton, Je–Jl (Joh); Old Forge, Je, *Yg*; Keene Val., Jl 31; Saranac Inn, Jl 21; Speculator, Jl 17, *Yg*; Long L., *Ds*; Big Moose, Jl; Woodhull L., *EJLove*; Elba, *MCV*; Erie Co; Albany, Jl (NYS).

C. geminatus Wied. Speculator, Jl 17, *Yg*; Wells, Jl 9 and 10, *Yg*; N. Fair Haven, Jl; Erie Co, Jl–Aug (MCV); Otto, Jl; Little Valley, Jl (MCV); Ithaca, Je–Jl (Joh); McLean, Jl; Ringwood, Jl; New Salem Swamp, Albany Co, Jl 7, *Bish*; Watervliet Reservoir, Albany, Aug 2, *Leon*; Voorheesville, Jl 7 and 15, *Leon*; Karner, Jl 14, *Leon*; Catskills, Jl; Mt. Merino, Jl (Jn); Huguenot, Jl, *Zab*; White Plains; Ramapo, *Ds*; Van Cort. Pk., Jl, *Zab*; **LI:** Cold Sp. Harb., Jl 19.

C. flavidus Wied. **SI,** Sep 2, *Ds* (Leon); **LI:** Riverhead, Je–Aug, *Ds* (Jn); Rockaway; Orient Pt., Jl 12, *Lath* (Leon).

C. fuliginosus Wied. (*plangens* Wied.). **SI:** Watchogue, Jl 4 (Ds); **LI:** Sands Pt., Je 15 (Ds); Flatbush, Je, *Zab* (AM); Sea Cliff (Hine).

C. frigidus O. S. McLean, Jl–Aug (Hine); Cooperstown, Jl.

C. lateralis Wied. Adirondacks, Jl (Hine); Speculator, Je, Aug 6, *Yg*; Old Forge, Jl; Big Moose, Jl, *Yg* (Leon); Saranac Inn, Jl 17 (Leon); Upper Ausable L., Jl 28 (Leon); Keene Val., Jl (Lint); Dug Mt., Aug, *Yg*; Wells, Jl 10 and 27, abundant, *Yg* (Leon); Cooperstown, Jl; Haines Falls, Aug; Elm L., Aug, *Yg* (Leon); Stony Clove, Catskills, Jl, *Ds*; Big Ind. Val., Je–Aug, *Pears*; Huguenot, Jl, *Zab*; **LI,** Je.

C. indus O. S. Essex Co (NYS); Keene Val., Jl (Leon); Theresa, Jl; Honeoye Falls, Je (Leon); Genesee Co, Je 26, *Ds*; Erie Co, Je–Aug, *MCV*; Ithaca and vic. (Hine); Trenton Falls, Je; McLean, Jl; Hoversville, Schoharie Co, Je 20 (Leon); Franklinton; Je 20, *Leon*; Rensselaer, May 30, *Leon*; Albany, Je (Leon); New Salem Swamp, Albany Co, Je 1, *Bish* (Leon); Voorheesville, Je 19, Jl 15, *Leon*; Hudson R. valley; Poughkeepsie, Je (Leon); Pine I., Je.

C. lugens Wied. "NY."

C. lugens var. **morosus** O. S. "NY."

C. mitis O. S. Axton, Je (Joh); Trenton Falls, Je 4, *Leon*; Cooperstown, Je; Ft. Montgomery, May 31, *Ds*.

C. moechus O. S. Lancaster, Je, *MCV*; Broadalbin, Je 29, *Yg*; Albany, Je 25 (Leon); White Plains, Jl.

C. moerens Wlk. N. Fair Haven, Jl; Lakeside Pk., Aug; Olcott, Jl; Freeville, Jl (Hine); Jamestown, Jl 5 (Leon); Canandaigua L., Aug 21, *Bish* (Leon).

C. montanus O. S. Dug Mt., Aug, *Yg*; Old Forge, Jl 17; Saranac Inn, Jl 22; N. Fair Haven, Jl; Catskills (O. S.); **SI:** Clove Val., Je 27; **LI:** Riverhead, Je–Aug, *Ds*; Long Beach.

C. niger Macq. Throughout the State, May–Aug. Adirondacks; Old Forge, Jl 11; Keene Val., Je 29; Big Moose, Jl 2, *Yg*; Elm L., Aug 7, *Yg*; Speculator, Je, *Yg*; Saranac Inn, Jl; Buffalo; Erie Co; Portage, Je–Jl, *MCV* (Jn); Castile, Brad (Joh); Ithaca and vic. (Joh); Woodhull L., *EJLove*; White L., Jl, *Zab*; Corinth, May 26, *Yg*; Hoversville, Je 20 (Leon); Franklinton, Je 20 (Leon); Cropseyville, Coeymans, Aug 18, Sep 15 (NYS); Mudhole Pond, Albany Co (?), Je, *Leon* (NYS); Voorheesville, Je 19 (Leon); Karner, Je 18; Rensselaer, Je; N. Chatham, Je 6; Hudson R. Val.; Big Ind. Val., Je–Jl, *Pears*; Yonkers; Poughkeepsie, Je 8; Pine I., Je 19, *Ds*; West Pt., Je 18, *Ds*; Huguenot, Jl, *Zab*; **SI:** Richmond, Je (Leon); **LI,** Je.

C. nigribimbo Whit. **LI,** Je.

C. obsoletus Wied. (*morosus* O.S.). White Plains, Jl (Kröber).

C. wiedemanni Kr. Paradox L., Jl 13, *Ds*; Big Moose, Aug 13, *Yg*; Speculator, Aug 9, *Yg*; Potsdam; Wells, Jl 23, *Yg*; Clyde, Jl 21, *Bish*; N. Fair Haven, Jl; Erie Co, Je–Aug, *MCV*; Niagara Falls (Jn); Otto; Ithaca, Je (Hine);

McLean, Jl; Cooperstown, Jl; Karner, Jl 14, *Leon*; Voorheesville, Jl 15, *Leon*; Watervliet Reservoir, Albany, Aug 2, *Leon*; Poughkeepsie, Je 30; Ramapo, *Ds*; White L., *Zab*; West Pt., Sep 2, *Ds*; Mosholu, Jl; NYC (Osb); **SI:** Clove Val., Jl; **LI:** Cold Sp. Harb., Jl (Hine).

C. parvulus Daecke. Callicoon, Jl, *Ds* (Lg).

C. pudicus O. S. **LI,** Je.

C. sackeni Hine. Pine I., Je 21, *Ds*; Mosholu, Jl.

C. sordidus O. S. Adirondacks, Je (Joh); Saranac Jct., Je, *Yg* (NYS); Castile, *Brad* (Joh).

C. striatus O. S. Saranac Inn, Jl (NYS); Old Forge, Jl 11; Fulton Co; L. Pleasant, Jl (Leon); Piseco L., Aug 31 (Leon); Sodus, Jl 20, *Lint* (Leon); Clyde, Jl 21, *Bish*; N. Fair Haven, Jl; E. Aurora, Little Valley, Je–Aug, *MCV*; Ithaca (Joh); Canandaigua L., Jl 31, *Bish*; Voorheesville, Jl 15, (*Leon*); **LI** (Jn).

C. univittatus Macq. Naples, Canandaigua L., Jl 31, *Bish*; Colden, Jl (MCV); Ithaca, Je–Jl (Hine); Albany, Je (Leon); Voorheesville, Je 19, Jl 15 (Leon); Huguenot, Jl, *Zab*; Ft. Montgomery, Je (MCV); Mosholu; **SI:** Richmond, Je, *Leon*; **LI:** Je–Aug (Jn); Yaphank, Je.

C. vittatus Wied. Throughout the State, Je–Aug. Big Moose, Jl 7, *Yg*; Keene Val., Jl; L. Pleasant, Aug; Piseco L., Aug 31; Elm L., Aug 7, *Yg*; Hague, Aug, *Leon*; Speculator, Aug 5, *Yg*; Wells, Jl, *Yg*; Fulton Co; Sodus, Je, *Lint*; Clyde, Jl 21, *Bish*; Erie Co; Otto; Little Valley, Je–Aug, *MCV*; Ithaca and vic. (Hine); Watervliet Reservoir, Aug 2, *Leon*; Albany, Je–Aug; Karner, Jl, *Leon*; Voorheesville, Je 19, Jl 15, *Leon*; Ballston L., Aug 26, *Leon*; Big Ind. Val., Jl, *Pears*; Poughkeepsie, Je; Van Cort. Pk., Jl, *Zab*; **LI:** Lawrence, Jl 27; Orient, Aug (NYS).

TABANUS Linnaeus

T. acteon O. S. Pine I., Sep 8, 1910 (Hine).

T. affinis Kby. Saranac Inn, Je (NYS); Potsdam, Je, *Yg* (Hine–NYS).

T. americanus Forster. "NY".

T. astutus O. S. Big Moose, Keene Val., Jl (Hine–NYS); Old Forge; McLean, Je, *Sib* (Joh).

T. atratus Fab. Abundant throughout the State. Adirondacks (Felt); Erie Co, Je–Aug, *MCV*; Sardinia, Aug (Bish); Castile, *Brad* (Joh); Ithaca (Hine); Utica, Jl, *RWWells* (Bish); Albany, May (NYS, Sep); Nyack, Jl, *Zab*; Hudson R. valley (NYS); West Pt., Je 8, *Ds*; NYC, Bronx Pk., *Ds*; **SI,** common, *Ds*; Richmond; Ft. Wadsworth; Watchogue, *Burns*; **LI**: Flatlands, Aug, *Zab*; Rosedale, *Schott*; Wading R., *Ds*; Long Pond, *Ds*; Massepequa; Long Beach, *Burns*; Brooklyn, *Eng*; Flatbush.

T. atratus var. **nantukensis** Hine. **LI:** Long Beach (Beq).

T. bicolor Wied. E. Aurora, Jl, *MCV*; Ithaca, Aug (Hine); McLean, Jl; White Plains, Jl; **SI:** Watchogue, Je 29, 1919, *Burns*; **LI:** Wading R.; Montauk, Aug 24, 1917, *Ds*.

T. carolinensis Macq. Rochester Jct., Jl, *Leon*; Ramapo, Je 12, *Ds* (Drury); West Pt., Je 4, *Ds*.

T. cinctus Fab. Karner, Je (Yg); **SI,** one male, Je 25, *Ds*; **LI:** Yaphank, *Eng*; Kings Pk., *Bell*; Babylon (BM).

T. coffeatus Macq. Adirondacks, Jl (Felt); Rhinebeck, Jl; Poughkeepsie (NYS); **SI:** Clove Val., *Ds*; Watchogue, *Bell*; **LI:** Wading R., *Eng*.

T. costalis Wied. Very abundant throughout the State. Erie Co., Je–Aug, *MCV*; Dunkirk (Hine); Gowanda (MCV); Ithaca, Jl–Aug (Hine); Utica, Jl, *RWWells* (Bish); W. Hebron, Aug, *Lg*; Hudson R. valley (NYS); Nyack, *Zab*; Ft. Montgomery, Jl 16, *Ds*; Ramapo, Jl, *Ds* (Drury); Carmel, Aug; **SI**: Richmond; Watchogue; Ft. Wadsworth, *Burns*; **LI**: Jamaica, *Osb*; Long Beach; Flatbush; Coney I.; Flatlands, *Zab*; Aug, *HMWells* (Zab).

T. cymatophorus O. S. Canandaigua L., Jl (NYS).

T. daeckei Hine. **SI.**

T. epistates O. S. Adirondacks, Jl (NYS, Jn); Mt. Whiteface, *Ds* (Jn); Long L., *Ds*; Rochester Jct., Jl, *Leon*; **SI**: Huguenot Pk., *Ds*; **LI**: vic. of Brooklyn (Eng).

T. exul O. S. (*sulcifrons* Macq.?). New Windsor, Jl, *Edw.*

T. giganteus DeG. Ithaca, Aug; Huguenot, *Burns*; **SI**: Annadale, etc., *Ds*; **LI**: vic. Brooklyn, *Eng*, *Sf.*

T. hinei Jn. **SI**: *Ds*; Richmond; Watchogue, *Burns*; **LI**: Long Pond, Wading R., *Ds*; Southampton, Jl (Hine–NYS).

T. illotus O. S. E. Aurora, Je; Rochester (*MCV*); Franklinton, Je, *Leon* (Hine–NYS).

T. lasiophthalmus Macq. Abundant throughout the State; Adirondacks, Je (Joh); Saranac Jct. (NYS); Erie Co, May–Je, *MCV*; W. Winfield (*Leon*); Castile, *Brad* (Joh); Ithaca, May–Je (Hine); Burlington Flats, *EEWehr* (Bishopp); Rensselaerville; Big Ind. Val., Je, *Pears*; Port Chester; Katonah, Je, *Bt*; White Plains, Jl (*MB*); Bedford Hills, Je (*Bish*); Orange Co, abundant, *Wells*; Pine I., *Ds*; NYC, Bronx Pk.; **SI**, common: Tottenville; Richmond, etc., *Ds*; Watchogue, *Burns*; **LI**: Wading R.; Gardiners I., *Ds*; Astoria; Montauk; Wyandanch, *Schott*; Jamaica, *Nic.*

T. lineola Fab. Abundant throughout the State; Adirondacks (Felt); Potsdam, Jl, *Yg* (Hine–NYS); Lewiston, Jl; Erie Co, Je–Jl *MCV*; Otto (Hine); Ithaca; Nyack, Jl, *Zab*(?); Hudson R. valley (NYS); Big Ind. Val., Aug, *Pears*; Bedford Hills, Je, *WHSandies* (Bish); Huguenot, Jl, *Zab*; **SI**, common, *Ds*, *Burns*; **LI**: Prospect Pk., Brooklyn; Flatbush, *Eng*; Jamaica; Yaphank; Aqueduct, *Ds*; Orient; Cold Sp. Harb., Jl; Long Beach, *Beq*; Sands Pt., *Burns*; Wading R., *Schott.*

T. longus O. S. Saranac Inn, Jl (NYS).

T. microcephalus O. S. Adirondacks (Felt); Saranac Inn, Jl (Hine–NYS); Old Forge, Jl; Wells, Jl (Hine–NYS); Colden, Jl–Aug (MCV); McLean (Hine); South L., Catskills, Aug 11, *Ds*; Big Ind. Val., Jl, *Pears* (Hine); Callicoon, Jl 27, *Ds*?.

T. minusculus Hine. Oswego (Hine).

T. nigrescens Palisot de Beauvais. Rochester, *MCV*; Nyack, Jl, *Zab* (Beq); ?Huguenot, Jl, *Zab* (AM); **SI**: a female from Watchogue Aug 4, a male from there Jl 21, 1920, *Burns*; a female found dead on Richmond Turnpike near Silver L., Aug 10, *Ds.*

T. nigrovittatus Macq. Gloversville, Aug (Hine–NYS); Ramapo, Jl 2, *Ds*; Larchmont, Aug; **SI**: common on the beaches, *Ds*; Watchogue, *Burns*; **LI**: Rosedale, *Schott*; Sheepshead, Aug (Hine-NYS); Orient; Maspeth, *Ds*; Rockaway Beach, *Osb*; Long Beach; Gardiners I., *Beq*; Sands Pt., *Burns*; Cold Sp. Harb., Jl (Hine-AM).

T. nigrovittatus var. **conterminus** Wlk. **SI**: Watchogue, *Bs*; **LI**: Rosedale, *Schott* (Beq); Rockaway Beach, *Ols* (Beq); Orient (Beq).

T. nivosus O.S. Hamilton Co (Ds); Saranac Inn, Jl (NYS); Big Moose, Jl, *Yg* (Hine–NYS); Rochester Jct., Je, *Leon;* West Pt., Je 13, *Ds.*

T. nudus McD. Saranac Inn, Je (Hine-NYS).

T. ohioensis Hine. Mt. Marcy, Je; Rochester Jct., Je, *Leon*; E. Aurora, Jl, *MCV*; Ithaca, Jl; McLean; **LI:** Hempstead, Jl.

T. orion O.S. NY (O.S.); Buffalo, *MCV*; Ithaca, Jl; **SI:** Clove Val., one female, two males on railroad train, Richmond, Aug 13, 1920, *Ds*; Oakwood, Jl 24, 1920, *Burns*; **LI:** vic. Brooklyn (Eng); Hempstead, Jl.

T. pumilus Macq. Abundant throughout the State; Hamburg, Jl (MCV); Ithaca, Jl (Hine); near Albany, Je (NYS); Huguenot, Jl, *Zab*; **SI,** common, *Ds*, *Burns*, *Beq*; **LI:** Rosedale, *Schott*; Pennequid Barrens, *Beq*; Cold Sp. Harb., Sep.

T. recedens Wlk. NY; NYC, *Ds*; **SI,** *Ds*; Watchogue, *Burns*.

T. reinwardtii Wied. Adirondacks (Felt); Fulton Co, *Ald*; Ithaca, Je–Aug (Hine); Hudson R. Val. (NYS); Utica, Jl, *RWWells* (Hine); **SI:** one male, Jl 24, *Ds*; Huguenot, Jl, *Zab* (Hine).

T. rhombicus O.S. Wells, Jl (NYS).

T. septentrionalis Lw. Old Forge, Aug (NYS); Keene Val. Je (Hine-NYS).

T. sparus Whitn. **SI; LI.**

T. stygius Say. Buffalo, Je, *MCV*; Olcott, Je; Ithaca and vic. (Joh); **LI:** Yaphank, Aug 16, 1921, *Eng*.

T. sulcifrons Macq. Coeymans (Lint); Palenville, *Ds*; **SI:** Watchogue, *Ds*; Richmond, *Miriam Campbell*; Arlington, *Bs*.

T. superjumentarius Whitn. S. Wales, Jl; Colden, Aug, *MCV*; **SI:** Richmond, Jl 13, 1919, *Bs*.

T. trimaculata Palisot de Beauvais. **SI; LI.**

T. thoracicus Hine. Oswego, Aug (Hine).

T. trepidus McD. Keene Val., Speculator, Jl (Hine-NYS).

T. trispilus Wied. Adirondacks, Jl (NYS); Long L., *Ds*; Irving, Je (MCV); Boston, Aug (MCV); Ithaca, Aug (Hine); Utica, Jl, *RWWells* (Hine); Croton, Jl, *Ds*; **SI:** Huguenot, Jl, *Zab*; **LI:** Queens, *Schott*; Sea Cliff (Hine).

T. trispilus var. **sodalis** Will. Ithaca, Je (Jn); L. Pleasant, Elm L., Jl–Aug, *Yg* (Hine-NYS).

T. vivax O.S. Wells, Je (Hine-NYS); Ithaca, Je–Aug (Joh).

T. zonalis Kby. Adirondacks, Je–Jl (Joh,Yg).

MERYCOMYIA Hine

M. whitneyi Jn. "NY" (Jn); **SI:** Clove Val., *CLPollard*.

FAMILY RHAGIONIDAE

(*Leptidae*)

Compiled by M. D. LEONARD

DIALYSIS Walker

(*Triptotricha* Loew)

D. elongata Say. E. Aurora, Jl (MCV); Olean, Aug 5 (MCV); White Plains, Aug 7, *Bno*; **SI:** Ft. Wadsworth, Richmond, Arrochar, Jl, *Bs*; **LI:** Maspeth, Aug, *Ols*; Flatbush, Jl–Aug, Zab.

RHAGIO Fabricius

(*Leptis* Fabricius)

R. gracilis Jn. Dug Mt., Aug, *Yg*; Upper Ausable L., Jl, *Beq*; Wells, Newport, Speculator, Jl–Aug, *Yg*; Colden, Aug (MCV); Olean, Aug (MCV); Dayton, Je (MCV); Rock City, Jl; Trenton Falls (OS).

R. mystaceus Macq. Keeseville, Je; Peru, Je, *Cy&Fbs*; Axton, *M&H* (Joh); N. Elba, Jl, *Wat*; Keene Val., Je; Saranac Inn, Je; Speculator, Je, *Yg*; L. Clear, Je, *Yg*; Newport, May; W. Winfield, Je, *Leon*; Chapel Pond, Je, *Bish*; Wells, May–Je; Mt. McIntyre, 4000 ft., Je, *Leon*; Johnstown, May; Loon L., Je, *Cy*; Woodworth's L., *Alex*; Hamburg, May–Je; Lancaster, Je, Holland, May (MCV); Rock City, Mix Cr. Val., Je; Crosby, May, *Cy*; Ithaca, McLean, Danby, W. Danby, May–Jl (div.); Spencer, Je, *And*; Trenton Falls, Jl, *Yg*, *Leon*; Corinth, Je, *Yg*; Albany, Je; Thacher Pk., Helderberg Mts., May, *Leon*; Cropseyville Je; Big Ind. Val., May–Je; Oliverea, Je, *Ds*; Greene Co, Je, 2500 ft., *How*; Poughkeepsie, May, *Yg*; West Pt., Je, *Ds*; Wappingers Falls, Jl, *Leon*; Nepperhan, Je, *Bks*; Ramapo, May; Ft. Edward, Je; **LI:** Oyster Bay, Je; Jamaica, May, *Ols*; Yaphank, May, *Pollard*; Flatbush, May–Je; Flushing, May, *Beq*; Central Pk.; Sands Pt; Cold Sp. Harb., Je, *Ds*; Orient Pt., Je, *Lath*.

R. plumbeus Say. Newport, Ilion, May, *Yg*; Woodville, L. Ontario, Je, *House*; Honeoye Falls, May, *Leon*; Hamburg, May (MCV); E. Aurora, May, *Wild*; Ithaca, May, *Leon*; Taughannock Falls, May; Corinth, May, *Yg*; Albany, May, *Yg*; Thacher Pk., Helderberg Mts., May, Rensselaer, May, *Leon*; Florida, Je, *FrostSW*; Durlandville, May, *FrostSW*; **LI:** Richmond Hill; Sea Cliff, May, *Bks*.

R. punctipennis Say. Mt. Kisco, Je; Speculator, Je, *Yg*; Gloversville, Sep, *Alex*; Kiamesha; Tompkins Co; Sterling Forest, May; Poughkeepsie, May, *Yg*; Nyack, *Zab*; White Plains, Je, *Beq*; Van Cort. Pk., Je, *Bno*; **SI:** Richmond, May–Je, *Bs*, *Leon*; New Dorp; **LI:** Richmond Hill, Jl; Sea Cliff, Je, *Bks*; Flatbush, May–Je, *Zab*; Sands Pt., Je, *Bs*; Woodhaven, Jl.

R. terminalis Lw. "NY", type; Taughannock Falls, Jl, *Leon*; Valcour, Jl.

R. vertebratus Say (*scapularis* Lw., *hirta* Lw.). Upper Ausable L., Jl, *Beq*; pond at foot of Mt. Redfield, Jl, *Beq*; Onteora Mt., Jl, *How*; Newport, Wells, Jl, *Yg*; Adirondack Lodge, Jl, *Leon*; Augur Flats, Jl, *Yg*; Hamburg, E. Aurora, Colden, Protection, Gowanda, Niagara Falls, Je–Jl (MCV); Little Valley, Je (MCV); McLean, Jl, *Leon*; Ithaca, Je–Jl, *SmRC*; Catskills, Je–Aug; Stony Clove, Jl; **SI,** Je, *Ds*.

R. incisus Lw. Binghamton, *Dietz*.

CHRYSOPILUS Macquart

C. basilaris Say. Hague, Aug, *Leon*; Batavia, Jl, *Kngt*; Spring Lake, Cayuga Co, Jl; Ithaca, Jl; Poughkeepsie, Jl, *Yg*; Mosholu.

C. fasciatus Say. Karner, Jl; Katonah, Je, *Bt*; W. Nyack, Jl, *Beq*; Van Cort, Pk., Jl, *Zab*; West Farms, *Angus*; **SI:** Watchogue, Jl, *Bs*; **LI:** Maspeth, Jl, *Ds*.

C. modestus Lw. Niagara Falls, Aug (OS); Buffalo, Jl–Aug (MCV); Goat I.

C. ornatus Say. Sacandaga Pk., Fulton Co, Je, *Alex*; Honeoye Falls, Je, *Leon*; Genesee Co, *Ds*; Niagara Falls, Je–Jl (MCV); Boston, Jl (MCV); Conesus L., Je, *Ds*; Ithaca and vic., Je–Jl; Albany, Jl; New Salem Swamp, Albany

Co, Jl, *Bish*; Bethlehem, Je, *Lint*; Helderberg Mts., Jl; Stony Clove, Jl; Poughkeepsie, Je; West Pt.; Katonah, Je, *Bt*; Tarrytown, Mosholu, Je–Jl, *Bno&Wat*; Ramapo, Je; Nyack, Je, *Ds*; **SI:** Richmond, Je, *Ds*; **LI:** Richmond Hill, Jl; Flatbush, Je, *Eng*; Jamaica; Sea Cliff, Je, *Bks*.

C. proximus Wlk. (*propinquus* Wlk., *simillimus* Wlk.). Speculator, Je, *Yg*; Keene, Je, *Leon*; Adirondack Lodge, Je, *Leon*; Lawson's L., Je, *Bish*; Kirkland, Je, *Leon*; Clayville, Je, *Leon*; Ithaca, Je, *SmRC*; Corinth, Je, *Yg*; Salem, Je; Karner, Je, *Yg*; Voorheesville, May, *Bish* (reared from sphagnum); Stony Clove, Jl; Poughkeepsie, Je, *Yg*; Port Chester, Je, *Haimbach*; Ramapo, Je; Suffern (AM); Mosholu, Van Cort. Pk., May, *Bno*; **SI:** Richmond, Watchogue, New Dorp, Je, *Bs*; **LI:** Flatbush, Je, *Zab*; Sea Cliff, *Bks*.

C. quadratus Say. Axton, Je, *M&H*; Wilmington, Aug; New Russia, Aug, *Bdy*; L. Placid, Aug; Saranac Inn, Je; Severance, Jl, *Bks*; Keene, Je, *Leon*; Chazy L., Jl; Wells, Speculator, Jl, *Yg*; Hague, Aug, *Leon*; Upper Ausable L., Jl, *Beq*; Brant L.; Sport I., Sacandaga R., Je, *Alex*; Lake Bluff, Sodus, Jl; Honeoye Falls, Aug, *Leon*; Niagara Falls, Je (Bezzi); Batavia, Je–Aug (Kngt); Grand I., Sep (MCV); Canandaigua L., Jl; Rock City, Jl, *Kngt*; Westfield, Je; Spring Lake, Jl; Spencer L., Je; Ithaca and vic., Je–Sep; Clifton Sps., Aug; Karner, Jl, *Leon*; Marlborough, 2500 ft., *How*; Catskills, Je–Aug; Pine I., Jl, *SWFrost*; **SI:** New Dorp, *Bs*; Watchogue, Jl, *Bs,Ds*; **LI:** Lott Wood; Flatbush, Je, Pennequid Barrens, Coram, Jl, *Beq*; Sands Pt., Jl, *Bs*.

C. rotundipennis Lw. S. Wales, Jl (MCV).

C. thoracicus Fab. Honeoye Falls, Je, *Leon*; Rochester, Je (Ald); Batavia, Je, *Kngt*; Portage, Je, *Ds*; Pike; Colden, Je (MCV); Westfield, Je; Ithaca and vic., May–Je, *Leon*; Interlaken, Je; Albany, Je, *Yg*; Voorheesville; Castleton, Je, *Lint*; Nassau, Je; Bethlehem, May, Je, *Ald*; Clinton Hgts; N. Chatham, Je; Cropseyville, Je; Hudson, Je; Poughkeepsie, May, *Yg*; Ramapo, May, Je, *Ds*; Katonah, Je, *Bt*; Suffern; Nyack; Mosholu (AM); NYC?, Je, *Angus*; West Farms, *Angus*; **SI:** Richmond, New Dorp, Tottenville, May–Je, *Bs*; **LI:** Jamaica, Je, *Ds*.

ATHERIX Meigen

A. variegata Wlk. Rochester Jct., Je, *Leon*; Pike, Jl; Ithaca, May–Je, *Leon,SmRC*; Riders Mills, May, *Bish* (all males, resting on needles of a pine tree; common).

SYMPHOROMYIA Frauenfeld

S. cinerea Jn. Ithaca, Je, *Leon*.

S. hirta Johns. Niagara Falls, Je (MCV); Ithaca; Cooperstown, *SmRC*; **LI:** Richmond, Je, *Ds*.

BOLBOMYIA Loew

B. nana Lw. Colden, N. Evans, May (MCV); Danby, May, *Snn*.

FAMILY CYRTIDAE

PTERODONTIA Gray

P. flavipes Gray. **LI:** Montauk Beach, *Schott* (Beq).

OGCODES Latreille

(*Oncodes* auct.)

O. costatus Lw. Niagara Falls, Aug (MCV); Honeoye Falls, Jl (Leon); Ithaca, Je (Joh).
O. dispar Macq. McLean, May, Sep (Joh).
O. incultus O.S. Potsdam; Grand I., Je (MCV); Keene, Je (MCV).

OPSEBIUS Costa

O. pterodontinus O.S. Ithaca, *Buys* (Joh).
O. sulphuripes Lw. Sharon Sps., *OS* (Lw).

ACROCERA Meigen

A. bimaculata Lw. McLean, Aug, *Sib* (Joh); West Pt., Je, *Ds* (Beq).
A. bulla Westw. Ithaca, Je, *Hd* (Joh); Big Ind. Val., *Eng* (Beq).
A. fasciata Wied. Poughkeepsie, May; McLean, Je, *Sib* (Joh).
A. liturata Will. (n. var.?). Juanita I., L. George, Jl 26, *Bish* (Leon).
A. nigrina Westw. Newcomb, Jl 6 (Joh); McLean, Aug, *Sib* (Joh).
A. subfasciata Westw. "NY".

FAMILY BOMBYLIIDAE

ANTHRAX Scopoli

(*Spogostylum* Macquart)

A. albofasciata Macq. Rochester (MCV); **LI**: Pennequid Barrens (Beq).
A. anale Say. Ithaca, Aug (Hine); Karner, Jl–Aug; Albany, Oct; Croton-on-Hudson, Jl, *Ds* (Jn); Unionport, Sep (AM); W. Nyack (Bs); Mosholu (AM); Van Cort. Pk. (Bs); **SI**, Aug–Sep (Bs); **LI**: Aqueduct, Sep, *Ds* (Jn); Sands Pt., Cold Sp. Harb., Jl–Aug (Bs); Yaphank, Aug–Sep, *Ds* (Jn); Riverhead, Aug (NYS).
A. argyropyga Weid. Inwood, *Schott* (Beq).
A. limatula Say. Essex Co, Jl.
A. oedipus Fab. Essex Co; Little Valley, Jl (MCV); Niagara Falls, Je (Jn); Ithaca (Joh); Karner (NYS); Ft. Montgomery, *Schott* (Beq); Nyack, Jl (Beq); **SI**, Jl (Bs); **LI**: Cold Sp. Harb., Aug (Bs); Sands Pt., Jl (Bs); Half Way Hollow Hills, Jl, *Ds* (Beq); Yaphank, May (CnJr-ANSP).
A. pauper Lw. Ithaca, Je (Hine); **SI**, Je–Jl (Beq,Bs); **LI**: Sands Pt., Jl, Sep (Bs); Orient (Beq); Gardiners I. (Beq).
A. simson Fab. Coeymans (Lint); Mt. Ivy, Rockland Co, Aug (Ds); New Baltimore, Jl (AM); Nyack, Jl (AM); **SI**, Aug (Ds, Bs); **LI**: Setauket, *Eng* (Beq); Yaphank, Aug, *Ds* (Beq); Gardiners I. (Beq).
A. varium Fab. Reared from nest of *Bomboides podilarius* at Ithaca, Ap (Snn).

EXOPROSOPA Macquart

E. capucina Fab. Minerva, Aug.
E. decora Lw. Ithaca, Jl (Hine); Van Cort. Pk. (Bs); **LI**: Cold Sp. Harb., Aug (Bs).

E. fasciata Macq. Ithaca, Aug (Hine, Jn); Niverville; W. Nyack (Beq); **SI**, Aug (Bs); **LI:** Aqueduct, Sep, *Ds* (Jn); Jamaica, Flushing, Canarsie, Long Beach, Rockaway Beach (Beq).

E. fascipennis Say. Newport, Aug (NYS); Irving, Jl (MCV); Ithaca, Aug (Hine); McLean, Jl; Albany; Normanskill (CnJr-NYS); Clinton Hgts. (NYS); Nyack, Jl (AM); Mosholu (AM); Van Cort. Pk. (Bs); Allerton Ave., NYC (Ang); **SI**, Je–Aug (Bs); **LI:** Corona (AM); Manhattan Beach, Yaphank, Greenport, Gardiners I. (Beq); Wading R., Aug, *Ds* (Jn).

VILLA Lioy

(*Anthrax* auct. not Scopoli)

V. alternata Say. Keene Val. (CnJr-NYS); L. Placid, Aug; Saranac, Jl; Long L., Aug; Severance, Aug, *CSBanks*; L. Pleasant, Jl; Erie Co, Aug–Sep (MCV); McLean, Aug, *Sib* (Joh); Karner, Aug–Sep (NYS); **SI** (Beq); **LI:** Cold Sp. Harb., Wyandanch, Orient (Beq); Wading R., Aug, *Ds* (Jn).

V. ceyx Lw. Karner, Aug (NYS); **LI:** Yaphank, Jl, *Ds* (Jn); Pennequid Barrens, Wading R., Wyandanch (Beq).

V. fulviana Say. Saranac Inn, Jl–Aug (CnJr-NYS); Keene Val., Aug; L. Pleasant, Jl; Wilmington, Aug; Grand I., Sep (Jn); McLean, Sep, *Sib* (Joh); Oliverea (Beq).

V. fulvohirta Wied. Mosholu (AM); **SI**, Aug–Sep (Bs); **LI:** Cold Sp. Harb., Aug (Bs).

V. hypomelas Macq. Woodhull L., Aug (Jn); Keene Val., Long L., Wilmington, Aug (CnJr); Wells, Jl, *Yg* (CnJr); Silver Bay, Aug (CnJr); **SI**, Sep (Bs).

V. lateralis Say. Keene Val., Jl–Aug; L. Pleasant, Jl–Aug; Wells, Jl; Saranac Inn, Aug; Erie Co, Je–Aug (MCV); Tompkins Co, including Ithaca, Jl (Hine); Haines Falls, Jl; Beaverkill, Aug (*CnJr*); E. Jewett, Aug, *Ds* (Jn); Albany, Dec(?) (NYS); Voorheesville, Aug; Kinderhook, Sep (CnJr); Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); **SI**, Jl–Sep (Bs); **LI:** Smithtown, Aug, *Ds* (Jn); Calverton, Yaphank, Amagansett, Jl, Sep, *Ds* (CnJr); Cold Sp. Harb., Huntington, Orient, Gardiners I. (Beq); Half Way Hollow Hills, Yaphank, Jl (CnJr-ANSP).

V. lateralis var. **gracilis** Macq. L. Pleasant (Jn).

V. lateralis var. **nigra** Cress. Adirondack L., Saranac Inn, Jl–Aug, Wells, Jl (CnJr-NYS); Beaverkill, Aug (*CnJr*); Karner, Jl.

V. molitor Lw. **LI:** Huntington, Sep (Coq).

V. morio L. Adirondack L., Jl, Saranac Inn, Je (CnJr); Rochester, Je (MCV); Niagara Falls (Jn); Lewiston, May (MCV); Corinth, May (CnJr); Karner, May–Je; Albany, May; Ft. Montgomery, *Schott* (Beq); Southfields, *Schott* (Beq).

V. nigricauda Lw. Beaverkill, Aug (CnJr-ANSP).

V. shawii Johns. **LI:** Amagansett, Sep, *Ds* (CnJr).

V. sinuosa Wied. Gowanda, Je (MCV); Karner, Je; Albany, Je–Jl; Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); Stony Pt., Je, *Ds* (Jn); Pine I., Je, *Ds* (Jn); **SI**, Je–Aug (Bs); **LI:** Kings Pk. (Beq); Huntington (Beq); Coney I., Rockaway (AM); Sands Pt., Je–Jl (Bs); Pennequid Barrens (Beq); Yaphank, May (CnJr-ANSP).

V. tegminipennis Say. Paradox L., Jl, *Ds* (Jn); Pine I., Sep, *Ds* (Jn); **LI:** Sands Pt., Wading R. (Bs); Huntington, Fire I., Sep (Jn); Promised Land, Sep, *Ds* (Jn); Gardiners I. (Beq).

V. webberi Johns. Ft. Montgomery, Southfields, *Schott* (Beq).

BOMBYLIUS Linnaeus

B. fraudulentus Johns. White Plains (Beq); **SI:** Ft. Wadsworth, May (Bs); **LI:** Cold Sp. Harb., Pennequid Barrens (Beq); Wading R., Je, *Ds* (Jn).

B. fulvibasis Macq. (*atriceps* Lw). Little Valley, Je (MCV); Tompkins Co (OS); Bethlehem Center, Je; Poughkeepsie, Jl; Mosholu (AM); **SI:** Watchogue, *Bs* (Beq); **LI:** Central Pk. (Beq); Farmingdale, *Bs* (Beq); Wading R., May, *Ds* (Jn).

B. incanus Johns. **LI:** Sands Pt., Je, *Bs*, *Ds* (Jn); Cold Sp. Harb., Je (Ds); Yaphank, Je (CnJr-ANSP).

B. major L. Pike; Erie Co, Ap–May (MCV); Ithaca, May (Hine); Karner, Ap–Aug, Albany (NYS); Ramapo, Mar 24, *Ds* (Jn); Mosholu (AM); **SI,** Mar 5–May (Bs); **LI:** Cold Sp. Harb., May (AM); Wyandanch, Yaphank, May, *Ds* (Jn).

B. mexicanus Wied. **SI:** Watchogue, Je (Bs); **LI:** Wading R., *Schott* (Beq); Yaphank, May (CnJr-ANSP).

B. pulchellus Lw. Nyack, Hillburn, *Schott* (Beq); Mosholu (Bks); **SI,** May (Ds); **LI:** Huntington, Amityville, *Schott* (Beq).

B. pygmaeus Fab. Hamburg, Colden, May (MCV); Ithaca, May, *Sib* (Joh); Ft. Montgomery, *Schott* (Beq); Ramapo Mts. (AM); Hillburn, May (Bs); **SI:** Watchogue, May (Bs); **LI:** Wyandanch, May, *Ds* (Jn); Yaphank, Melville (Beq).

B. subvarius Johns. Ft Montgomery, *Schott* (Beq); Mosholu, May (Ds).

B. validus Lw. "NY" (OS).

B. varius Fab. Nyack, Jl, *Zab* (AM); **SI,** Je, *Ds* (Jn); **LI:** Central Pk. (Beq); Farmingdale (Bs).

ANASTOECHUS Osten Sacken

A. barbatus O.S. (*nitidulus* auct. not Fab.). **LI:** Amagansett, Sep (CnJr-ANSP); Wading R., Sep, *Bs*.

SYSTOECHUS Loew

S. candidulus Lw. **LI:** Yaphank, *Ols*, Coram, Wading R., Pennequid Barrens (Beq).

S. vulgaris Lw. Ramapo Mts. (AM).

PHTHIRIA Meigen

P. sulphurea Lw. **LI:** Long Beach, Aug (Beq).

LEPIDOPHORA Westwood

L. aegeriformis Westw. Minnewaska, Ulster Co, Aug (Beq); **SI:** Watchogue, Sep 21, *Ds* (Jn).

SPARNOPOLIUS Loew

S. fulvus Wied. Erie Co, Aug–Sep (MCV); Tompkins Co, including Ithaca, Jl–Aug; Callicoon (AM); Phoenicia, Aug (MCV); White Plains (Beq); Pine I., Sep (AM); Mosholu (AM); **SI,** Aug–Sep (Bs); **LI:** Sands Pt. (Bs); Central Pk., Cold Sp. Harb., Flushing, Huntington, Little Neck, Southold, Sep (Beq).

SYSTROPUS Wiedemann

S. macer Lw. Erie Co, Aug–Sep (MCV); Ithaca, Aug (Joh); White Plains (Beq); Nyack, Aug (AM); Ramapo Mts. (AM); Stony Pt., Sep (Bs); **SI**, Aug (Bs); **LI**: Astoria (AM); Brookhaven, Sep, *Schott* (Beq); Riverhead, Aug, *Ds* (Jn).

GERON Meigen

G. calvus Lw. Erie Co, Jl–Aug (MCV); Geneseo; Albany, Jl.

FAMILY THEREVIDAE [99]

TABUDA Walker

T. fulvipes Wlk. **LI**: Baiting Hollow, May (NYS).

PSILOCEPHALA Zetterstedt

P. amplifrons Cole (*latifrons* Cole). W. Danby, May, type.

P. flavipennis Cole. **LI**: Sands Pt. (Bs); Wyandanch, *Schott* (Beq); Riverhead, Jl–Aug (NYS).

P. frontalis Cole. Keene Val., Aug; Gloversville, Sep; Oswego, Jl; Rochester Jct., Jl, type, *Leon* (Cole); Lake Bluff, Jl; Corinth, Je, *Yg* (NYS); Karner, Je, *Yg* (NYS); Hague, Aug (Leon-NYS); Ft. Montgomery, *Schott* (Beq); Poughkeepsie, Je, *Yg* (NYS); **SI**; **LI**: Cold Sp. Harb.; Fishers I., Aug; Montauk, Aug, *Ds* (Felt).

P. grandis Jn. Ramapo Mts., *Ds* (Beq).

P. haemorrhoidalis Macq. Essex Co, Gloversville, Honeoye Falls, Rochester Jct., Je (*Leon*); Oswego; Lake Bluff; Erie Co, Je–Aug (MCV); Batavia, Jl; Castile (Brad); Ithaca, May–Sep; Poughkeepsie; New Rochelle, Aug (AM); Ft. Montgomery (Schott); **SI** (Ds); **LI**: Flatbush, Sep; Sea Cliff, Bergen I., Jl; Wyandanch (Schott); Sands Pt. (Bs); Jamaica, *Bs* (Beq).

P. melampodia Lw. Keene Val., Je–Jl; Ithaca, May; Albany, May.

P. morata Coq. **LI**: Gardiners I., Je, *Ds* (Felt–Ds).

P. munda Lw. Axton, Je, Aug; Big Moose, L. Placid, Aug; N. Elba, Jl; Middleport, Jl (MCV); Rock City, Je, *Ds* (Felt).

P. variegata Lw. Oswego, Je–Jl; Pulaski, Je, *Ds* (Felt).

EPOMYIA Cole

E. pictipennis Wied. Oswego, Jl; Sanford, *MCV* (Cole); Ft. Montgomery, *Schott* (Beq); **LI**: Long Beach (Beq); Orient, Jl, *Zab* (Cole).

E. rufiventris Lw. Essex Co, Jl; **LI**: Sands Pt. (Bs); Long Beach; Riverhead, Jl (NYS).

E. scutellaris Lw. Mosholu, Je; Van Cort. Pk., Je–Jl.

THEREVA Latreille

T. candidata Lw. Essex Co, Aug (JonesFM); Speculator, Je (NYS); Saranac Inn, Jl; N. Elba, Jl; Rochester Jct. (Leon); Lancaster, May–Je (MCV); Scotia, Je; Karner, Jl (Cole-NYS); Corinth, Je; Albany, May–Jl.

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[99] The manuscript for this family has been checked by Dr. F. R. Cole.

T. duplicis Coq. Axton, Je (Cole).

T. flavicincta Lw. Adirondacks, Je; Speculator, *Ang* (NYS); Protection, Je, Little Valley, Je (MCV); Wanakena, Aug (Cole).

T. frontalis Say. Chazy, Je; Upper Ausable L. (Beq); foot of Mt. Redfield, Essex Co (Beq); N. Elba, Jl; Wells, Jl; Speculator, Aug; Genesee Co (Ds); Lancaster, Je; Gowanda, Je; Little Valley, Je (MCV); Yates Co, *Ds* (Beq); Ithaca, Jl; Slaterville, Je; Albany, May.

T. senex Wlk. Ithaca, May.

T. strigipes Lw. Axton, Je.

FAMILY **SCENOPINIDAE**

SCENOPINUS Latreille

S. fenestralis L. Essex Co, Jl; Ausable Forks, Jan (NYS); Middleport, Jl (MCV); Buffalo, Je–Jl (Lint); Salamanca, Little Valley, Jl (MCV); Ithaca (Joh); Amsterdam; Albany, Oct; Mosholu (AM); **SI** (Beq); **LI:** Flatbush, Je, *Zab*; Gardiners I., Jl (Beq).

S. glabrifrons Meig. "NY", Ap (Jn); **LI:** Flatbush, *Schott* (Beq).

FAMILY **MYDAIDAE**

MYDAS Fabricius

M. carbonifer O.S. Ithaca, Je 30, *Philip Miller* (Joh); Norton's Landing, Cayuga L., Jl, *Comstock* (OS).

M. clavatus Drury. Near Buffalo (MCV); Bronx Pk., *Schott* (Beq); **SI:** Wards Pt., Jl 10 (Ds); Arlington, Jl 24 (Ds); Watchogue (Ds); **LI:** Flatbush, Aug, *Zab*.

FAMILY **ASILIDAE**

SUBFAMILY **LEPTOGASTERINAE**

LEPTOGASTER Meigen

L. annulatus Say. "NY" (Back).

L. badius Lw. Essex Co, Jl; Sacandaga Pk., Je; Niagara Falls, Je (Jn); Hamburg, Jl.

L. flavillaceus Lw. **LI:** Wyandanch, *Schott* (Beq).

L. flavipes Lw. Common and widely distributed. Ft. Montgomery (Beq); **SI,** Jl, *Ds* (Beq); **LI:** Aqueduct, Jl, Riverhead, Aug, *Ds* (Beq); Flatbush, Jl, *Zab*; Cold Sp. Harb., Jl (AM); Central Pk., Wading R. (Beq).

L. incisuralis Lw. Mosholu (AM); **LI:** Wyandanch, Je (Jn).

L. loewi Bks. Ithaca (Bks).

L. pictipes Lw. **LI:** Aug (Back); Wading R., Je, *Ds* (Jn); Yaphank, Jl, *Ols, Ds* (Beq); Pennequid Barrens (Beq).

L. testaceus Lw. Erie Co, *MCV*; Tompkins Co, Jl (Hine); Albany, Je; Pine I., Je, *Ds* (Beq); **LI:** Gardiners I. (Beq).

SUBFAMILY **DASYPOGONINAE**

LAPHYSTIA Loew

L. sexfasciata Say. "NY" (Back).

CERATURGUS Wiedemann

C. aurulentus Fab. Van Cort. Pk. (Beq).

C. cruciatus Say. Tompkins Co, Jl, *Dt* (Joh); Bethlehem; Albany; Poughkeepsie, Je; White Plains, Westchester (Beq); Mosholu, Sep, *Ds* (Beq); **LI:** North Beach, *Schott* (Beq).

C. similis Jn. Portage, Je, *Ds* (Beq).

ECHTHODOPA Loew

E. formosa Lw. **LI:** Gardiners I. (Beq).

DIOCTRIA Meigen

D. albius Wlk. Upper Ausable L. (Beq); Adirondacks, Jl; Erie Co, Je–Aug (*MCV*); Otto, Jl; Little Valley, Je; Rock City, Je (Ds); Tompkins Co, Je–Jl (Hine); Ft. Montgomery, *Schott* (Beq); Oliverea, Jl, *Ds* (Beq); **LI:** Half Way Hollow Hills, Jl (Ds).

D. baumhaueri Meig. **LI:** Sands Pt., *Bs* (Beq).

D. brevis Bks. **LI:** Sea Cliff (Bks); Pennequid Barrens (Beq).

D. sackeni Will. Indian Pass, Essex Co, *Not* (Beq); Oliverea, Je, *Ds* (Beq).

CYRTOPOGON Loew

C. bimacula Wlk. Mt. Marcy (Beq).

C. falto Wlk. (*chrysopogon* Lw.). Adirondacks, Je (Back, Joh); Karner, May; **LI:** Central Pk., Kings Pk. (Beq).

C. lutatius Wlk. Hamburg, Je (MCV); Pike (Back); Cayuga L.; **LI:** Pennequid Barrens (Beq).

C. lyratus O.S. Adirondacks, Aug; Catskill, Jl (Back).

C. marginalis Lw. Karner, May; Catskills (Back); **LI:** Yaphank, *Schott* (Beq); Wyandanch, *Schott* (Beq); Pennequid Barrens (Beq).

LASIOPOGON Loew

L. terricola Jn. **SI** (Beq).

HOLCOCEPHALA Jaennicke

H. abdominalis Say. Potsdam, Jl (Hine); Erie Co, Jl–Aug (MCV); Westfield, Jl; Ithaca, Jl–Sep (Joh); Trenton Falls, Jl; **SI,** Aug, *Ds* (Beq).

H. calva Lw. Ithaca (Hine); Poughkeepsie, Jl; **SI,** Jl, *Ds* (Beq); **LI:** Flatbush, Jl, *Zab.*

HOLOPOGON Loew

H. guttula Wied. Oswego, Jl (Jn); Erie Co, Je–Jl (MCV); Ft. Montgomery, *Schott* (Beq); Nyack, Je, *Ds* (Jn); **LI:** Yaphank, May, *Ds* (Jn); Central Pk. (Beq).

NEOPOGON Bezzi

(*Stichopogon* auct. not Loew)

N. argenteus Say. **SI,** south shore, *Ds* (Beq); **LI:** Amagansett, Sep, *Ds* (Beq); Gardiners I. (Beq); Fire I., Sep, *Ds* (Beq); Rockaway (AM); Sands Pt., *Back* (Beq); Long Beach (Beq).

N. trifasciatus Say. Rochester (MCV)); Callicoon, Jl, *Lg*; **SI:** Tottenville, *Leon, Ds*; Kreischerville, Jl; **LI:** Sheepshead Bay, Jl; Wading R., Aug–Sep, *Ds*; Fire I., Sep, *Ds* (Jn); Rockaway, Aug, *Ols*; Cold Sp. Harb. (Beq); Pennequid Barrens (Beq); Yaphank, Jl, Orient, Jl, Selden, Riverhead, Aug, *Ds*; Manhattan Beach, Jl, *Southwick*.

HETEROPOGON Loew

H. macerinus Wlk. (*gibbus* Lw.). Trenton Falls (Lw); Ft. Montgomery, *Schott* (Beq); **LI:** Wading R., *Ds*, Huntington, *Schott* (Beq).

DEROMYIA Phillippi

D. discolor Lw. Pittsford (Lint); Oliverea, Jl, *Ds* (Beq); Mosholu (AM); Van Cort. Pk., Aug, *Ds* (Beq); **SI,** Aug–Sep, *Ds* (Beq); **LI:** Brooklyn (Beq); Yaphank, Aug, *Ds* (Beq); Calverton, Jl, *Ds* (Beq); Manhattan Beach (Beq); Fishers I., Aug, *Zab*; Baldwin, Sep; Flatbush, Aug (AM).

D. umbrina Lw. Keene Val., Jl; Wells; Erie Co, Aug–Sep (MCV); Clifton Sps. (Hine); Pike; Ithaca, Jl–Aug (Joh); McLean, Jl, *Sib* (Joh); Albany, Je; E. Jewett, Aug, *Ds* (Beq); Debruce, Sep, *Ds* (Beq); Dutchess Co (Beq); Carmel, Aug (Beq–AM); **LI:** Gardiners I. (Beq); Montauk, Aug, *Ds* (Beq).

D. winthemi Wied. (*misellus* Lw.). Larchmont, Aug, *Beq* (AM); W. Nyack (Beq); Woodbury Falls, Sep (AM); Carmel, Aug, *Beq* (AM); **LI:** Southold, Sep, *Ds* (Jn); Cold Sp. Harb., Oakdale, Wyandanch, Gardiners I. (Beq); Montauk, Aug, *Ds* (Jn).

TARACTICUS Loew

T. octopunctatus Say. Oswego, Jl (Jn); Mosholu (AM); **SI,** Aug, *Ds* (Beq); **LI:** Parkville (AM); Flatbush, Je–Sep, *Zab*.

NICOCLES Jaennicke

N. pictus Lw. Gowanda, Je (MCV); **LI:** Selden, Aug, *Ds*.

SUBFAMILY LAPHRIINAE

CEROTAINIA Schiner

C. macrocera Say. E. Aurora, Jl (MCV).

ATOMOSIA Macquart

A. puella Wied. Erie Co, Je–Jl (MCV); Otto, Jl (Hine); Ithaca, Jl (Hine); Albany, Aug; White Plains (Beq); **SI:** Clove Val., Jl, *Ds* (Beq); **LI:** Flatbush, Jl, *Zab* (AM).

POGONOSOMA Rondani

P. dorsatum Say var. **melanopterum** Wied. **LI:** Montauk Beach, *Schott* (Beq).

DASYLECHIA Williston

D. atrox Will. Ithaca, Aug (Hine).

NUSA Walker

N. fulvicauda Say. Elma, Aug (MCV).

LAMPRIA Macquart

L. bicolor Wied. Niagara Falls, Je (Jn); Tompkins Co.

DASYLLIS Loew

D. affinis Macq. Otto, *Comst* (Hine); **LI:** Wyandanch, *Schott* (Beq).

D. champlainii Walton. **LI:** Baiting Hollow, May; Riverhead, Aug, *Ds* (Beq).

D. cinerea Back. Karner, Je (Back).

D. flavicollis Say. Mt. Whiteface, on trail, Jl, *Ds* (Jn); Adirondacks (Joh); Sodus Bay, Je; Niagara Falls; Erie Co, May–Jl (MCV); Conesus L., Portage, Je (Ds); Pike; Rock City, Je (Ds); Ithaca (Hine); McLean, May, Jl; Syracuse, *Blkm* (Hine); Albany, Nassau, Je; Slide Mt., Oliverea, Je (Ds); E. Jewett, Aug (Ds); Poughkeepsie, Je, *Yg*; Ramapo, Je, Ft. Montgomery, May (Ds); Highbridge, May (Ds); **SI**, Je (Ds); **LI:** Gardiners I., Je (Ds); Kings Pk., Jl, *Bs* (MCV); Flatbush, May, *Zab*; Port Jefferson (Beq); Wading R., May (Ds); Half Way Hollow Hills, Jl (Ds).

D. grossa Fab. (*tergissa* Say). Ithaca, Jl; Poughkeepsie, Jl; Yonkers, Jl, *Ang* (Bs); **SI:** Clove Val., Je, *Ds* (Beq); **LI:** Flatbush, Jl, *Bs*; Wyandanch, Aug, *Ds* (Beq); Kings Pk., Jl (Bs); Brooklyn, Rockaway Beach, Aqueduct, *Ols* (Beq).

D. posticata Say. Mt. Whiteface, Jl, *Ds* (Jn); Adirondacks, Je–Jl (Joh); Paradox L., Jl, *Ds* (Jn); Gloversville, May; Erie Co, Je–Jl (MCV); Pike; Portageville, *Ds* (Beq); Rock City, Je, *Ds* (Jn, Beq); Tompkins Co, Je–Jl (Hine); Albany, May–Je; Karner, Je; Nassau, Sep; Rensselaer, May; **LI:** Pennequid Barrens (Beq).

D. sacrator Wlk. Adirondacks; N. Elba (Jn); Upper Ausable L. (Beq); Tompkins Co, Je–Jl (Hine); McLean, Jl (Joh).

D. thoracica Fab. Lowville, Aug (Ds); Oswego; Niagara Falls, Je–Jl (Jn); Erie Co, Je–Jl (MCV); Ithaca (Hine); Syracuse, *Blkm*; Kenwood, Jl; Coeymans, Jl; Albany, Je; West Pt., Je (Robn); Pine I., Je (Ds); Poughkeepsie, Jl; Ft. Montgomery (Beq); W. Nyack (Beq); New Baltimore, *Zab*; **SI:** Tompkinsville, Je, *Ds*; Richmond, Jl (Ds); Clove Val., May–Je, *Ds*; Egypt's I., Je (Ds); Tottenville, Je (Ds); Ft. Wadsworth, Jl (Bs); **LI:** Brooklyn, Je, *Shoe, Ds* (AM); Flatbush, Jl, *Zab, Schott* (Beq); Wading R. (Beq); Cold Sp. Harb., Je (Ds); Jamaica, Je (Ds).

LAPHRIA Meigen

L. aeatus Wlk. (*index* McAtee). Erie Co, Jl (MCV); Genesee Co, Je, *Ds* (Beq); West Pt., Je, *Ds* (Beq).

L. aktis McAtee. Rock City, Je, *Ds* (Beq); Ft. Montgomery, *Schott* (Beq).

L. altitudinum Bromley. L. Tear, 4300 ft. (Beq).

L. canis Will. Keene Val., Upper Ausable L. (Beq); Erie Co, Jl–Aug (MCV); Little Valley, Je, Aug; Tompkins Co, Je–Jl, Sep (Hine); Haines Falls; Oliverea (Beq); Ft. Montgomery, Aug, *Ds* (Beq); W. Nyack (Beq); **SI:** Ft. Wadsworth, Jl, Watchogue, Jl, Arrochar, Jl (Bs); Richmond, Aug, *Ds* (Beq); **LI:** Wyandanch (Beq).

L. dispar Bks. (*canis* Will.?). Ithaca (Bks).

L. gliva L. (*bilineata* Wlk.). Big Moose, Jl, *Yg*; Pike.

L. sadalis Wlk. (*pubescens* Will.). "NY" (Wlk); Axton, Je (Joh).

L. scorpio McAtee. "NY".

L. sericea Say. Essex Co, Jl; N. Elba, Jl, 2000 ft., *Wat* (Beq); Speculator, Jl, *Yg*; Boston, Jl–Aug (MCV); Pike; Portage, Je, *Ds* (Beq); Little Valley, Je; Tompkins Co, Je–Jl (Joh); Albany (Leon); Pine I., West Pt., Je (Ds); Ft. Montgomery, *Schott* (Beq); **SI:** W. New Brighton, Je, *Ds* (Beq).

SUBFAMILY ASILINAE

OMMATIUS Wiedemann

O. marginellus Fab. (*tibialis* Say). Poughkeepsie, Jl; White Plains, W. Nyack (Beq); Mosholu (AM); **SI:** Watchogue (Bs); Richmond, Jl (Bs); **LI:** Wading R., Je (Ds); Sands Pt., Aug (Bs); Kings Pk., Jl, *Bell*; Flatbush (AM); Riverhead, Jl, *Ds* (Jn).

PROCTACANTHUS Macquart

P. brevipennis Wied. Mosholu (AM); **SI:** Watchogue, Je, *Bs* (Beq); **LI:** Coram, Aug 18, Yaphank, Jl 5, Riverhead, Aug 4, *Ds* (Beq).

P. nigriventris Macq. **SI:** Kreischerville, *Bs*; **LI:** Fire I., Sep 7, Gardiners I., Aug 20, Yaphank, Je, Riverhead, Je, Calverton, Sep, Coram, Aug, *Ds* (Beq); Kings Pk., Aug, *Bell*.

P. philadelphicus Macq. Severance, Aug; New Russia, Aug (Hine); Albany, Aug; Karner, Sep; Mosholu (AM); NYC, Van Cort. Pk. (Beq); **SI:** Arrochar, Sep 10, *Ds*; New Dorp, Ft. Wadsworth, Sep, *Bs*; **LI:** Cold Sp. Harb., Sep (Beq); Yaphank, Aug 26–Sep 3, Coram, Montauk, Aug 26, *Ds* (Beq); Wyandanch, *Schott* (Beq); Wading R., *Bs*; Gardiners I., Aug 20 (Beq).

P. rufus Will. **SI:** Watchogue, Aug, *Bs* (Beq); **LI:** Manhattan Beach (Beq); Coney I., Sep, Riverhead, Jl 5, *Ds* (Beq); Gardiners I. (Beq).

ERAX Scopoli

E. aestuans L. (*bastardii* Macq.). Elizabeth, Je; Essex Co, Jl; Erie Co, Jl–Aug, S. Wales, Jl (MCV); Ithaca, Je–Aug (Hine); Clinton Hgts., Jl; Poughkeepsie, Jl; Yonkers, *Bs*; White Plains, W. Nyack (Beq); NYC, Van Cort. Pk., *Bs*; **SI:** Richmond, Aug 4, *Ds* (Jn); Reed's Val., Jl 28, *Ds* (Beq); New Brighton, Ft. Wadsworth, *Bs*; **LI:** Sheepshead Bay, Aug; Yaphank, Jl 10, Greenport, Orient, Je–Aug, Selden, Sep, *Ds* (Jn); Maspeth, Aug, *Ols* (Beq); Central Pk., Gardiners I. (Beq); Flatbush, *Eng* (Beq).

E. barbatus Fab. (*cinerescens* Bell; *albibarbis* Macq.). Bronx Pk., Mosholu (AM); **SI:** Ft. Wadsworth, Watchogue, *Bs*; **LI:** Wading R., Aug, *Ds* (Beq); Sands Pt., Jl, Cold Sp. Harb., *Bs* (Beq); Sheepshead Bay, Jl; Gardiners I., Orient, Rockaway Beach (Beq).

E. rufibarbis Macq. W. Nyack, *Bs*; White Plains (Beq); **SI:** Ft. Wadsworth, Sep, *Bs*; **LI:** Patchogue, Sep, Montauk, Aug 24, *Ds* (Jn); Wyandanch, *Ds* (Beq); Cold Sp. Harb., Sep, Sands Pt., *Bs*; Gardiners I., Aug 21, *Ds* (Beq); Springs (Beq).

MALLOPHORA Macquart

M. clausicella Macq. **LI:** Oakdale, Huntington, *Schott* (Beq); Wading R., Aug, *Ds* (Jn); Yaphank, Jl, *Ds* (Beq).

PROMACHUS Loew

P. bastardii Macq. Keene Val., Aug; Severance, Aug (Bks); New Russia, Jl; Tonawanda, Aug (MCV); W. Hebron, Aug, *Lg* (Beq); Albany, Jl (Hine); Nassau; Clinton Hgts., Jl; Nyack (AM); **SI:** Ft. Wadsworth, Jl–Aug, Richmond, Jl, *Bs*; **LI:** Maspeth, *Ols* (Beq); Sands Pt., *Bs*.

P. fitchii O.S. (*apivorus* Fitch). Nassau, May (Jn); White Plains (Beq); Pelham, Jl; **SI:** south shore, Je–Aug, Clove Val., *Ds* (Beq); Richmond, Jl, Arrochar, Jl, *Bs*; **LI:** Oakdale, Flatbush, *Schott* (Beq); Astoria (AM).

P. rufipes Fab. Nyack, Aug, *Zab* (AM).

ASILUS Linnaeus

A. alethes Wlk. "NY" (Wlk); unrecognized.

A. antimachus Wlk. Trenton Falls (Wlk); W. Nyack, Jl, *Ds* (Beq); **SI:** Ft. Wadsworth, New Dorp, Richmond, Watchogue, Arrochar, Je–Jl (Bs).

A. auricomus Hine. Ithaca, Aug (Hine); **LI:** Southold, Sep (Jn).

A. erythrocnemius Hine. Stony Pt., *Schott*, White Plains (Beq); **SI:** Richmond, Aug, *Bs*; **LI:** Wyandanch, *Schott*, Orient (Beq); Gardiners I., Je, *Ds* (Beq).

A. flavofemoratus Hine (*flavipes* Will.). Mt. Whiteface, summit, Jl, *Ds* (Beq); Hamilton Co, *Ds* (Jn); Erie Co, Jl (MCV); Ithaca, Je–Jl (Hine); McLean, Jl, *Sib* (Joh); Karner, Je; Pine I., Je, *Ds* (Jn); West Pt., Je, *Ds* (Beq); Nyack, Je, *Ds* (Jn); **SI:** Ft. Wadsworth, Je, Watchogue, Jl (Bs); **LI:** Farmingdale, Je (Bs); Central Pk., Cold Sp. Harb., Kings Pk. (Beq); Wading R., May, *Ds* (Jn); Yaphank, Je, *Ds* (Beq); Nissequogue, Je, *Ds* (Jn); Sands Pt., Je (Bs).

A. fuscatus Hine (*obscurus* Hine). "NY" (Hine).

A. latipennis Hine. Ithaca, Aug (Hine).

A. maneei Hine. **LI:** Cold Sp. Harb., Aug (Bs); Huntington, *Schott* (Beq).

A. notatus Wied. Adirondacks, Je; Keene Val. (Beq); Oswego, Jl (Jn); Little Valley, Je (MCV); Ithaca, Je, Aug (Hine); McLean, Jl, *Sib* (Joh); Karner, Poughkeepsie, Je–Jl; Ft. Montgomery (Beq); Nyack, Je, *Ds* (Beq); Tomkins Cove, Sep, Carmel (AM); **SI:** Arrochar, Jl, Ds (Beq); Richmond, Jl, Ft. Wadsworth, Je, Watchogue, *Bs* (Beq); **LI:** Cold Sp. Harb., Port Jefferson, Yaphank, Pennequid Barrens, Gardiners I. (Beq).

A. novae-scotiae Macq. Adirondacks, Jl–Aug; Newport, Jl; **SI:** Clove Val., Jl, *Ds* (Beq); Tottenville, Je, *Ds* (Beq); Watchogue, Je, *Ds* (Beq); Ft. Wadsworth, Jl, Richmond, Oakwood, *Bs*; **LI:** Yaphank, Jl, *Ds* (Beq); Maspeth, Jl, *Ds*, Gardiners I. (Beq).

A. orphne Wlk. (*neortamus, distinctus* Will.). Mt. Whiteface, summit, Jl, *Ds* (Beq); Adirondacks, Jl; Niagara Falls, Je (Jn); Erie Co, Je–Jl (MCV); Tompkins Co, May, Jl; W. Hebron, Aug, *Lg* (Beq); Albany, Je; West Pt.,

Je, *Ds*, Ft. Montgomery (Beq); White Plains, *Bno* (Beq); New Rochelle, Aug (AM); **LI:** Aqueduct, Sep, *Ds*, Huntington (Beq).

A. paropus Wlk. Ithaca, Jl (Beq); McLean; Clifton Sps., Aug (Hine).

A. sadyates Wlk. Alexandria Bay, Sep; Erie Co, Je (MCV); Little Valley; Tompkins Co, Jl–Sep (Hine); Oliverea (Beq); West Pt., Je, *Ds*, Stony Pt. (Beq); Ramapo, Je, *Ds* (Beq); **SI:** Richmond, Je, Watchogue, Jl, *Ds* (Beq); **LI:** Rockaway Beach, Je, Amagansett, Sep, Yaphank, Je, Fire I., Sep, Cold Sp. Harb., *Ds* (Beq); Wading R., Sep (Bs); Gardiners I., Aug, *Ds* (Beq).

A. sericeus Say. Saranac Inn; Hamburg, Je (MCV); Slingerlands, Jl; Poughkeepsie; Ft. Montgomery (Beq); **SI:** Wadsworth, Jl, Watchogue (Bs); **LI:** Kings Pk., Jl, *Bell*, Queens, Central Pk., Farmingdale, Je (Beq); Flatbush, Je, *Zab*; Astoria (AM).

A. snowii Hine (*annulatus* Will.). Potsdam; Essex Co, Aug; Speculator, Jl; Oswego (Jn); Erie Co, Jl–Aug (MCV); Ithaca, Jl–Aug (Hine); McLean, Jl, *Sib* (Joh); Albany, Je; **SI:** Richmond, Ft. Wadsworth, Watchogue, Jl (Bs); **LI:** Montauk, Aug, *Ds*; Flatbush, Aug, *Zab*.

FAMILY DOLICHOPODIDAE [99a]

SUBFAMILY SCIAPINAE

SCIAPUS Zeller

(*Psilopodinus* Aldrich not Bigot; *Agonosoma* Aldrich not Guérin; *Psilopus* Meigen not Poli)

S. banksii VanD. McLean, Jl, *Sib*; **LI:** Sea Cliff, *Bks* (MCV).

S. calcaratus Lw. **SI:** Watchogue, Jl, *Bs* (MCV); **LI:** Sands Pt., Je, *Bs* (MCV).

S. caudatus Wied. Lancaster, Je; Ithaca, Jl; Albany, Je (MCV); **SI:** Richmond, Aug, *Bs* (MCV); **LI:** Sands Pt., Je, *Bs* (MCV); Wading R., Sep, *Bs* (MCV).

S. delicatus Wlk. "NY" (Wlk).

S. flavipes Ald. Erie Co, Je–Aug (MCV); Ithaca, Jl; Karner, Je (Yg); Poughkeepsie, Je (MCV).

S. inermis Lw. **LI:** Pennequid Barrens, Jl (Beq).

S. novaboracensis VanD. Gowanda, Je (MCV); Rock Glen, Jl (MCV).

S. pallens Wied. Erie Co, Jl–Aug; Albany, May–Jl (NYS); Karner, Je, *Comst* (NYS); Bowling Green, Je–Jl (MCV); **LI:** Sag Harb.; Pennequid Barrens, Jl (Beq).

S. patibulatus Say. Manlius; Orleans Co, Je, *Ds* (MCV); Cattaraugus Co (MCV); Otto; Ithaca, Jl; Trenton Falls; Poughkeepsie, Je–Jl (MCV); Pine I., Je 19–22, *Ds* (MCV); L. Waccabuc, Aug (Beq-AM); **SI:** Watchogue, Jl 2, *Ds* (MCV); **LI:** Sands Pt., Je, *Bs* (MCV); Farmingdale, Je, *Bs* (MCV); Port Jefferson, Jl (Beq).

S. scaber Lw. Ithaca, Jl (MCV); Lowville, Aug (MCV–Ds); **SI:** Arrochar, Ft. Wadsworth, Je–Aug, *Bs* (MCV).

S. scintillans Lw. Manlius, Aug; Gowanda, Aug; Lancaster (MCV); McLean, Jl, *Sib*; Ft. Montgomery, *Schott* (Beq).

[99a] The list for this family has been checked by M. C. Van Duzee.

S. scobinator Lw. Axton; Niagara Falls; Erie Co, Jl–Aug (MCV); Ithaca; Albany, Je (NYS); W. Nyack, *Bs* (MCV); **SI,** Jl, *Bs* (MCV); **LI:** Sands Pt., Jl, Cold Sp. Harb., Aug, *Bs* (MCV); Wyandanch, *Ols* (Beq); Orient, Jl (Beq).

S. sipho Say. Common and widely distributed throughout the State, Je–Sep (MCV).

S. unifasciatus Say. Olcott (MCV).

S. virgo Wied. "NY" (Wied).

SUBFAMILY DIAPHORINAE

DIAPHORUS Meigen

D. gibbosus VanD. Colden; Little Valley, May–Je (MCV); Dryden L., Je (MCV–CU); **SI:** New Dorp, *Bs* (MCV); **LI:** Rosedale, May, *Schott* (MCV).

D. lamellatus Lw. Erie Co, May–Jl (MCV); **SI:** Richmond, Je, *Bs* (MCV).

D. leucostomus Lw. Manlius; Lewiston; Buffalo, Aug (MCV).

D. leucostomus var. **infuscatus** VanD. Erie Co, May–Je (MCV).

D. opacus Lw. Sacandaga R.; Erie Co, Je–Jl (MCV); Tompkins Co; Albany; **SI:** Richmond, *Bs* (Beq).

D. palpiger Wheel. (*Chrysotus spinifer* Mall.). Lewiston; Colden; Erie Co, Je–Aug (MCV); **SI,** Aug, *Bs* (MCV).

D. sodalis Lw. Springville, Je (MCV); Colden, Jl (MCV).

D. spectabilis Lw. Niagara Falls, Je (Ald); **SI:** Richmond, *Bs* (Beq).

D. variabilis VanD. N. Evans, Aug (MCV).

ASYNDETUS Loew

A. syntormoides Wheel. W. Nyack, Jl, *Bs* (MCV); **LI:** Cold Sp. Harb., Aug, Sands Pt., Jl, *Bs* (MCV).

CHRYSOTUS Meigen

C. affinis Lw. Elba; Tonawanda; Erie Co, Je–Sep; Ithaca, Je (MCV); Freeville, Jl; W. Nyack, Jl, *Bs* (MCV); Albany, Je (NYS); **SI:** Arrochar, Jl, Richmond, Sep, *Bs* (MCV); **LI:** Farmingdale, Je, *Bs* (MCV).

C. anomalus Mall. McLean, Jl.

C. auratus Lw. "NY" (Lw); Albany, Je, Sep; Voorheesville, Jl (Curr).

C. barbatus Lw. Lewiston, Aug; Buffalo, Je; E. Aurora, Aug; Salamanca, Jl (MCV); **SI,** Sep (Beq).

C. bellus VanD. **SI:** New Dorp, Watchogue, Tottenville, Clove Val., May, *Bs* (MCV).

C. caudatus VanD. N. Evans, Aug (MCV).

C. choricus Wheel. (*ciliatus* Mall.). Niagara Falls, Je (Jn); Colden, Jl; Elba; Erie Co, May–Jl (MCV); Trenton Falls, Je; Albany, Jl (Curr).

C. convergens VanD. Colden; S. Wales, May–Jl (MCV).

C. cornutus Lw. Colden; Salamanca, Jl (MCV).

C. costalis Lw. Erie Co, Je–Jl (MCV); Tompkins Co; Wells, Je, *Yg* (Curr).

C. cressoni VanD. Beaver Kill, Aug (MCV).

C. currani VanD. Ithaca, Jl (MCV-CU).

C. discolor Lw. Keene Val., Aug (NYS); Speculator, Jl–Aug, *Yg* (Ald); Ithaca, Je, Ringwood, Jl (MCV-CU); McLean, Jl (MCV); W. Nyack, Jl, *Bs* (MCV); **SI:** Clove Val., Je 27, *Ds* (MCV); Richmond, *Bs* (MCV); **LI:** Sands Pt., Jl, *Bs* (MCV); Long Beach, Je (Beq).

C. dividuus VanD. Elba, Hamburg, Lancaster, Je (MCV).

C. excisus Ald. Ringwood, Jl (MCV-CU).

C. exiguus VanD. Colden, Jl (MCV).

C. halteralis VanD. E. Aurora, Jl (MCV).

C. hastatus VanD. Ithaca, Aug.

C. hirtipes VanD. Olcott, Jl (MCV); McLean, Jl; Ithaca, Jl–Aug, Albany, Je, *Yg*.

C. hirtipes var. **dubius** VanD. Ringwood, Jl (MCV-CU).

C. magnicornis VanD. Ithaca.

C. major VanD. Erie Co, Je (MCV).

C. obliquus Lw. Olcott; Elba; Erie Co, May–Aug (MCV); Tompkins Co, May–Aug, McLean, May, Ringwood, Jl (CU); Voorheesville, Jl (Curr).

C. pallipes Lw. Ithaca, Aug (MCV-CU); McLean, Sep, *Sib*; Van Cort. Pk., Jl (MCV-CU).

C. parvus VanD. Erie Co, Jl.

C. parvicornis VanD. E. Aurora; Colden, May–Je (MCV).

C. perparvus VanD. Protection, Jl (MCV).

C. picticornis Lw. Lewiston, Aug; Erie Co, Je–Oct (MCV); Rock Glen, Jl (MCV); Tompkins Co, Jl; W. Nyack, Jl (Beq).

C. sagittarius VanD. Buffalo, Ap (MCV).

C. subcostatus Lw. Albany, Je; Wells, Jl (Curr).

C. tibialis VanD. Clayville, Je, *Leon* (MCV); Silver Creek, Je; Wells, Jl.

C. varipes VanD. Protection, Jl (MCV).

C. vividus Lw. Poughkeepsie, Je, Jl, *Yg* (Curr).

C. vulgaris VanD. Erie Co, Elba, Freeville, Harford, May–Jl (MCV); McLean, Jl, *Sib*; Ithaca, Ellis, Je (MCV-CU); Newport, Je, *Yg* (Curr).

C. wisconsinensis Wheel. Peru, Je (MCV-CU); Lancaster; S. Wales, Jl (MCV); Cayuga L., Speculator, Aug; Wells, Jl, *Yg* (Curr).

CAMPSICNEMUS Haliday

C. americanus VanD. NY (Curr).

C. hirtipes Lw. Niagara Falls, Aug; Erie Co, May–Aug (MCV); Rock Glen, Jl (MCV); Ithaca, Jl–Aug; Albany, Oct; **SI:** Watchogue, *Bs* (MCV).

KOPHOSOMA Van Duzee

K. acuticornis VanD. Ithaca (MCV).

K. brevis VanD. Colden, Lancaster, Olcott, Irving, E. Aurora, Jl; Portage; Middleport; Jamestown; Ithaca (MCV).

SUBFAMILY RHAPIINAE

ARGYRA Macquart

A. albicans Lw. Erie Co, Je–Aug (MCV); Portage, Jl (MCV); Ithaca, Caroline, Taughannock, May; Thacher Pk., May (Curr); **SI:** Watchogue, Aug, *Bs* (MCV).

A. angustata VanD. L. Tear, 4500 ft. (Beq); Olean, Aug, *MCV*.

A. calceata Lw. Erie Co, Jl–Sep (MCV); Little Valley, Jl (MCV); Ithaca, Jl, McLean Bogs, Aug (MCV-CU); Manlius, Jl; Wells, Jl (Curr).

A. calcitrans Lw. Erie Co, Je–Jl (MCV); Colden, Aug (MCV); Portage, Jl (MCV); Ithaca, Je (MCV-CU).

A. flavipes VanD. Hoversville, Je (Curr).

A. robusta Jn. Portage, Jl (MCV); Ithaca, May (MCV-CU); Ilion, May (Jn).

A. setipes VanD. Colden, Aug (MCV); Hamburg, Jl (MCV); Little Valley, Jl (MCV).

A. thoracica VanD. Newport, Je (MCV); Lewiston, Je (MCV); Gowanda, Je (MCV); Speculator, Je (MCV); Protection, Je (MCV); Kiamesha (MCV).

LEUCOSTOLA Loew

L. cingulata Lw. Erie Co, Je–Jl (MCV); Hoversville, Je; Wells, Jl (Curr).

L. venustus Mall. NY.

RHAPHIUM Meigen

(*Porphyrops* Meigen)

R. armatum Curr. Colden (Curr).

R. canadense Curr. Poughkeepsie, May; Speculator, Je; Wells, Jl, *Yg* (Curr).

R. effilatum Wheel. Niagara Co, Jl (MCV); Erie Co, Je–Sep (MCV); Rock Glen, Jl (MCV); Watervliet Reservoir, Aug (Curr).

R. fascipes Meig. Lewiston, Je (MCV); Erie Co, May–Aug (MCV); Ithaca, May (MCV).

R. longipes Lw. Olcott, Jl (MCV); Colden, May.

R. lugubre Lw. Albany, May, *Yg*.

R. melampus Lw. Erie Co, May–Jl (MCV); Rock Glen, Jl (MCV); Little Valley, Aug; Ithaca, May–Aug; Ellis, Je; Manlius, Sep; **SI:** Clove Val., *Bs* (MCV).

R. nigricoxa Lw. Lancaster, Je (MCV); Corinth, Je, *Yg* (Curr).

R. ornatum VanD. Colden, Jl 9–23, types (MCV); Lancaster, Je 2, types (MCV); Thomson, May (Curr).

R. signifer O.S. Manlius; Erie Co, Je–Aug (MCV); Ithaca; Tarrytown.

R. slossonae Jn. Nassau, May (Curr).

NEMATOPROCTUS Loew

N. venustus Mel. W. Nyack, Jl (MCV); Ringwood, Jl (MCV-CU).

XIPHANDRIUM Loew

X. femineum VanD. Rochester, May (MCV).

X. femineum var. **dubium** VanD. Gasport, Aug (MCV).

SYNTORMON Loew

S. cinereiventris Lw. Niagara Falls, Aug–Oct (MCV); Gasport (MCV); Erie Co, Aug–Sep (MCV).

SUBFAMILY SYMPYCNINAE

SYMPYCNUS Loew

S. canadensis VanD. Protection, Aug, N. Evans, Je (MCV).

S. lineatus Lw. Speculator, Aug, *Yg* (NYS); Albany, Oct, *Yg*; Rochester, Oct (MCV); Niagara Co; Erie Co; Tompkins Co, May–Aug; W. Nyack, Jl (Beq).

NOTHOSYMPYCNUS Wheeler

N. fortunatus Wheel. Newport, Je, *Yg* (Curr-NYS); Wells, Jl, *Yg* (Curr-NYS); Colden, Aug (MCV); Ithaca, Aug; Albany, Sep (Curr-NYS).

N. frontalis Lw. Erie Co, May–Aug (MCV); Ithaca, Jl–Aug.

N. luteipes VanD. Wells, Jl, *Yg* (MCV).

N. nodatus Lw. Niagara Falls, Je (Jn); Colden, Aug (MCV).

SUBFAMILY NEURIGONINAE

NEURIGONA Rondani

N. aestiva VanD. Lancaster, Je (MCV); Salem, Je (Curr).

N. aldrichi VanD. Lancaster, Je, E. Aurora, Jl (MCV).

N. arcuata VanD. E. Aurora, N. Evans, Je–Jl, Gowanda, Je (MCV).

N. carbonifer Lw. Erie Co, May–Jl (MCV).

N. deformis VanD. Buffalo, Gowanda, Je (MCV).

N. disjuncta VanD. E. Aurora, Little Valley, Je (MCV); Ithaca, Jl.

N. dorsalis VanD. Elma, Irving, Aug (MCV); Ithaca, Jl.

N. floridula Wheel. "NY" (MCV); **LI:** Pennequid Barrens, Jl, *Beq* (MCV).

N. floridula var. **infuscata** VanD. Erie Co (MCV); Little Valley, Je.

N. lateralis Say. "NY" (Lw); Middleport, Jl (MCV); Albany, Je (Curr).

N. maculata VanD. Erie Co, Je–Jl (MCV); Little Valley, Je; Ithaca; **LI:** Sea Cliff.

N. minima VanD. Ithaca, Aug (MCV-CU), holotype.

N. nigricornis VanD. Colden, Aug (MCV); Wells, Jl (Curr); **SI:** Richmond, Jl, *Bs* (MCV).

N. rubella Lw. Buffalo (MCV); **LI:** Sea Cliff, *Bks*; Sands Pt., *Bs* (Beq).

N. tarsalis VanD. E. Aurora, Je, Gowanda, Je (MCV); Ithaca; **LI:** Sea Cliff.

N. tenuis Lw. Niagara Falls, Jl; Erie Co (MCV); E. Aurora, Jl–Sep.

N. tibialis VanD. Lancaster, Aug (MCV); Ithaca, Aug (MCV-CU).

N. viridis VanD. S. Wales, Jl; West Farms (MCV).

SUBFAMILY XANTHOCHLORINAE

CHRYSOTIMUS Loew

C. delicatus Lw. "NY" (Lw).
C. flavicornis VanD. **LI:** Richmond Hill (MCV).
C. pusio Lw. Mt. Whiteface, Aug (MCV); Colden, Aug (MCV); Wells, Jl (Curr).

XANTHOCHLORUS Loew

X. helvinus Lw. Wells, Speculator, Jl–Aug, *Yg* (Curr); Niagara Falls, Aug (MCV); S. Wales, Jl; Ithaca, Aug; Albany, Aug (Curr-NYS).

SUBFAMILY THINOPHILINAE

THINOPHILUS Wahlberg

T. ochrifacies VanD. **LI:** Cold Sp. Harb., Sep, Long Beach, Jl, *Bs* (MCV).

DIOSTRACUS Loew

D. prasinus Lw. "NY" (Ald); Wells, Jl, *Yg* (Curr).

SUBFAMILY MEDETERINAE

MEDETERUS Fischer von Waldheim

M. aberrans Wheel. Gowanda, Je (MCV).
M. distinctus VanD. E. Aurora, Je, holotype (MCV).
M. emarginatus VanD. Peru, Oct (MCV-CU).
M. fimbriatus Lw. Sacandaga Pk. (MCV-CU).
M. frontalis VanD. Hamburg, May, Aug (MCV), holotype; Chautauqua Co, Je (MCV).
M. nigripes Lw. E. Aurora, Jl (MCV); Little Valley, Je; Ithaca, Aug; L. Clear, Je (Curr).
M. obesus VanD. E. Aurora, Jl (MCV), holotype.
M. veles VanD. S. Wales, Little Valley, Jl (MCV).
M. vittatus VanD. Peru, Aug (MCV-CU); Erie Co, Jl, Sep (MCV), paratype; Albany, Je; Little Valley, Je (MCV); **LI:** Long Beach, Je (Beq).

PELOROPEODES Wheeler

P. salax Wheel. Wells, Jl, *Yg* (MCV).

THRYPTICUS Gerstaecker

T. comosus VanD. Ellis, Jl (MCV).
T. fraterculus Wheel. Lewiston, Aug (MCV); Voorheesville, Jl.
T. muhlenbergiae Joh. & Cy. Ithaca, May (Joh). Larva in stems of Muhlenbergia (type).

T. tectus VanD. E. Aurora, Jl (MCV); Ringwood, Jl (MCV-CU); Albany, Je (Curr).

T. willistoni Wheel. Sacandaga Pk., Je (MCV-CU); Olcott, Jl (MCV); Manlius; Erie Co, May–Je (MCV); Ellis, Je; Ithaca, May, Jl (MCV-CU).

SUBFAMILY HYDROPHORINAE

HYDROPHORUS Fallén

H. aestuum Lw. Erie Co, Aug–Sep (MCV); **SI:** Watchogue, May, *Bs* (MCV).

H. agalma Wheel. Buffalo, Oct (MCV).

H. amplectens Ald. L. Tear, Jl (MCV).

H. chrysologus Wlk. L. Tear, 4300–4600 ft., Jl, *Beq* (MCV–Bs).

H. flavipennis VanD. Buffalo, Oct (MCV).

H. intentus Ald. **SI:** Watchogue, May, Sep, *Bs* (MCV); **LI:** Sands Pt., Jl, Cold Sp. Harb., Sep, *Bs* (MCV).

H. philombris Wheel. Rochester, Sep; Buffalo, Aug–Oct (MCV).

H. pirata Lw. Elma, Colden, Springville, Jl–Oct (MCV); Karner, Oct.

SCELLUS Loew

S. exustus Wlk. Buffalo, Je; Grand I., Aug (MCV).

ORTHOCERATIUM Schrank

(*Liancalus* Loew)

O. genuale Lw. Essex Co, Jl–Aug; Elizabethtown, Aug (NYS); Keene Val., Aug (NYS); Niagara Falls, May–Oct (MCV); Erie Co, Je–Oct (MCV); Ithaca, Jl–Aug (Ald); Meadowdale, Aug; Poughkeepsie, Je (NYS).

SUBFAMILY DOLICHOPODINAE

DOLICHOPUS Latreille

D. abrasus V. C. & A. Grand I., Aug.

D. abruptus Ald. L. Tear (Ald).

D. absonus V. C. & A. Grand I., Aug; Buffalo, Sep.

D. acuminatus Lw. Lewiston; Lancaster; Erie Co, May–Oct (MCV); Rock Glen, Jl (MCV); Ithaca, Jl (VC&A).

D. adultus V. C. & A. Speculator, Je, *Yg* (Leon); Ilion, May, *Yg* (Curr); Lewiston, May; Colden; E. Aurora; Hamburg; Erie Co; McLean, May; Thomson, May 25 (Leon).

D. aequalis V. C. & A. Wilmington Notch, Jl, *Leon* (Curr); Wells, Jl, *Yg* (Curr); Hoversville, Je, *Leon* (Curr); Erie Co, Jl–Aug; Rock Glen, Jl (MCV); McLean, May; Franklinton, Je, *Leon* (Curr).

D. ainsleei V. C. & A. Irving, Aug.

D. albiciliatus Lw. Manlius (OS); Olcott, Jl (MCV); western NY.

D. albicoxa Ald. Adirondack Lodge, Jl, *Leon* (Curr); Elm L., Aug, *Yg* (Curr); Elizabethtown, Je (Leon); Erie Co, Je; Portage, Jl.

D. barbicauda V. C. & A. Hoversville, Je, *Leon* (Curr); Franklinton, *Leon* (Curr).

D. batillifer Lw. Hoversville, Je, *Leon* (Curr); Portage, Jl (MCV); Trenton Falls, Je 20, *Yg*; Albany, Je 13 (Leon); West Pt.; **SI:** Richmond, Je, *Bs* (MCV).

D. bifractus Lw. Mt. McIntyre, summit, Jl, *Leon* (Curr); Niagara Co, Aug; Erie Co; Ithaca, Je–Sep (MCV); Long Beach, Je–Jl, *Bs* (MCV).

D. brevimanus Lw. Ithaca and vic., May–Je (MCV).

D. burnesi V. C. & A. Ballston L., Aug 26 (Leon); **SI:** Arrochar, *Bs* (MCV), holotype; **LI:** Wading R., Sep, *Bs* (MCV), allotype.

D. calcaratus Ald. Upper Ausable L. (Beq); Moss Pond, Essex Co, 4200 ft. (Beq); Erie Co, Je–Sep (Ald); Rock Glen, Jl (MCV); E. Aurora; Little Valley, Jl (MCV); Ithaca, Jl, *Bs* (MCV); Voorheesville, Je 19 (Leon); Poughkeepsie, Je 5, *Yg* (Leon).

D. coercens Wlk. "NY" (Wlk).

D. comatus Lw. Wells, Jl, Newport, Je, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Niagara Co; Erie Co, May–Sep (MCV); Tompkins Co; Albany, May 22; Karner, Je 27, *Yg*; Poughkeepsie, Je; **SI:** Watchogue, Aug, New Dorp, Je, Clove Val., *Bs* (MCV); **LI:** Huntington, Oct, *Schott* (MCV); Cold Sp. Harb., Aug–Sep, *Bs* (MCV).

D. conterminus Wlk. "NY" (Wlk).

D. continguus Wlk. "NY" (Wlk).

D. cuniculus VanD. Grand I., Aug.

D. cuprinus Wied. Wells, Jl, *Yg* (Curr); Blue Mt., Jl 24, *Yg*; W. Winfield, Je, *Leon* (Curr); Manlius; Erie Co, Je–Sep; Little Valley, Aug (MCV); Tompkins Co, Je–Jl (Joh); Watervliet Reservoir, Aug, *Leon* (Curr); Albany, Je; Nassau L., Sep 3 (Leon); Nassau, Jl 8; Voorheesville, Jl, *Leon* (Curr); Poughkeepsie, Je; W. Nyack, Jl, *Bs* (MCV); **SI:** Richmond, Je, New Brighton, *Bs* (MCV).

D. dakotensis Ald. Rochester, May (MCV); Trenton Falls, Je (Curr); Albany, Je (Curr).

D. dasypodus Coq. Moss Pond, 4200 ft., Jl (Beq).

D. decorus VanD. Buffalo, Je.

D. defectus V. C. & A. Wells, Jl, *Yg* (Curr); Niagara Falls; Colden; E. Aurora, Jl.

D. detersus Lw. Speculator, Jl, *Yg*; Moss Pond, Essex Co, 4200 ft., Jl (Beq); Manlius; Olcott, Jl; Erie Co, May–Aug (MCV); McLean, Je; Saratoga; Ballston L., Aug 26 (Leon); Voorheesville, Jl, *Leon* (Curr).

D. discifer Stan. (*nigricornis* Mg.?). Axton, Je; Dug Mt., Aug, *Yg*; Wells, Jl, *Yg* (Curr); Lewiston, Aug (MCV); Colden, Aug; McLean (MCV); Poughkeepsie, Je, *Yg* (Curr).

D. discolor V. C. & A. Lewiston, May; Tonawanda, Aug; Lancaster, Je; Nassau, Je (Curr-NYS).

D. distractus Wlk. "NY" (Wlk).

D. domesticus VanD. E. Aurora.

D. dorycerus Lw. Wells, Jl, *Yg*; Moss Pond, Essex Co, Jl, *Bs* (MCV); pond at foot of Mt. Redfield, 2500 ft., Jl (Beq); L. Tear, 4300 ft., Jl (Beq); Lancaster, Je (Jn).

D. eudactylus Lw. Speculator, Wells, Jl, *Yg* (Curr); Rochester, Je (MCV); Niagara Falls, Je; Erie Co, Je–Jl (MCV); Rock Glen, Jl (MCV); Ithaca (Joh); Trenton Falls, Je, *Yg*; Albany, Je, *Yg*; W. Nyack, Jl, *Bs* (MCV); **LI:** Pennequid Barrens, Orient, Jl (Beq).

D. finitus Wlk. "NY" (Wlk).

D. flagellitenens Wheel. E. Aurora, Je.

D. flavicoxa V. C. & A. McLean, Jl (Curr).

D. flavilacertus V. C. & A. L. Tear (Beq); pond at foot of Mt. Redfield, Jl (Beq); **LI:** Farmingdale, Je, *Bs* (MCV).

D. fulvipes Lw. Cranberry Cr., Je, *Yg*; Erie Co, Je–Jl (MCV); Colden, May (MCV); Little Valley, Jl (MCV); Nassau, May.

D. funditor Lw. Niagara Falls, Sep (MCV).

D. gracilis Ald. Erie Co, Je–Sep (Ald&MCV); W. Nyack, Jl, *Bs* (MCV); **LI:** Wading R., *Bs* (Beq).

D. gratus Lw. Erie Co, Je–Aug (MCV); Rock Glen, Jl (MCV); Ithaca, Je; Trenton Falls; Voorheesville, Jl, *Leon* (Curr); Poughkeepsie, Je, *Yg*; West Pt.; W. Nyack, Jl, *Bs* (MCV); **LI:** Cold Sp. Harb., Aug, *Bs* (MCV).

D. harbecki Ald. Adirondacks (Ald).

D. idoneus VanD. E. Aurora, Je.

D. incisuralis Lw. Niagara Falls; Erie Co; Colden, Jl (MCV); Ithaca (MCV); Trenton Falls, Jl; Karner, Je (Curr).

D. incongruus Wheel. Elizabethtown, Jl 2 (Leon); Erie Co; Colden, May (MCV); Ellis, Jl.

D. indigena V. C. & A. Buffalo, Je; S. Wales, Je–Jl; Wells, Jl (MCV).

D. laticornis Lw. Little Valley, Jl (MCV); Ithaca, May (MCV); Thacher Pk., Albany Co, May 27 (Leon).

D. latipes Lw. Manlius; Grand I., Aug–Sep (MCV); Ithaca, Aug (MCV); Pine I., Je 23 (Leon).

D. lobatus Lw. Manlius; W. Winfield, Je, *Leon* (Curr); Olcott, Jl; Elba, Je–Jl (MCV); Buffalo, Je; Albany, Je (Leon).

D. longimanus Lw. Chazy L., Je; Keene Val., Aug (Lint); Niagara Falls, Je–Aug; Olean; West Pt. (OS).

D. longipennis Lw. Manlius; Irving, Jl (MCV); Ithaca, Jl; W. Nyack, Jl, *Bs* (MCV); **SI:** Richmond, Jl, *Bs* (MCV).

D. luteipennis Lw. Manlius, Aug (OS); Little Valley, Jl (MCV).

D. marginatus Ald. Colden, Aug (MCV); McLean, May; Germantown, Je, *Leon* (Curr); **SI:** Watchogue, *Bs* (MCV); **LI:** Sands Pt., Jl, Cold Sp. Harb., Aug, *Bs*; Orient, Sep (Beq).

D. melanocerus Lw. Niagara Falls, Je (Jn); **SI:** Watchogue, Je, *Bs* (MCV).

D. nigricornis Meig. (See *D. discifer.*)

D. nodipennis V. C. & A. E. Aurora and several other localities in Erie Co, May–Je (MCV); McLean.

D. omnivagus V. C. & A. Elba, Je; E. Aurora, Je.

D. ornatipennis V. C. & A. McLean, Jl.

D. ovatus Lw. Manlius, Aug (OS); Lewiston, May–Aug; Ithaca (MCV).

D. pachycnemus Lw. Speculator, Jl (Yg); E. Aurora, Je (MCV).

D. palaestricus Lw. Axton, Je (Joh); Keene Val., Jl, *Lint* (Leon); Chapel Pond, Je, *Leon* (Curr); Wells, Jl, *Yg* (Curr); L. Placid, Aug (Curr-NYS); Cascade L., Je, *Leon* (Curr); Northampton, Je, *Yg* (Curr); Chazy L., Je 23, *Yg* (Leon); Lewiston, May; Niagara Falls, Je (Jn); Olean (MCV); Albany, Je (Curr-NYS).

D. pantomimus M. & B. Niagara Falls, Je.

D. penicillatus V. C. & A. (*Hygroceleuthus ciliatus* Ald.). Albany, Je (Curr).

D. porphyrops V. C. & A. Axton, Je (MCV); Upper Ausable L., Jl (Beq); Adirondack Lodge, Jl (Leon); Wells, Jl, *Yg* (Curr); Lewiston, Aug; Corinth Je, *Yg* (Leon); W. Nyack, Jl (MCV); **LI:** Pennequid Barrens, Aug, *Bs* (MCV).

D. pugil Lw. Lancaster, Jl; Buffalo (MCV); Karner, Je; **SI:** Watchogue, *Bs* (MCV); **LI:** Sands Pt., Jl, Cold Sp. Harb., Sep, *Bs* (MCV).

D. quadrilamellatus Lw. Erie Co, Jl; Buffalo (MCV); Ithaca, Jl (MCV); **SI:** Richmond, Watchogue, Jl, *Bs* (MCV).

D. ramifer Lw. Beede's, Keene Val., Aug (Curr-NYS); Wells, Jl, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Clayville, Je, *Leon* (Curr); Alexandria Bay, Sep; Niagara Falls, Jl; Erie Co, Je–Aug (MCV); Tompkins Co; Voorheesville, Aug, *Leon* (NYS); New Rochelle; **LI:** Sands Pt., Long Beach, *Bs* (MCV).

D. reflectus Lw. Buffalo, Je (MCV); Ithaca, Jl; **SI:** Richmond, Je, *Bs* (MCV); **LI:** Sands Pt., Je, Sep, *Bs* (MCV).

D. remus V. C. & A. E. Aurora, Protection, Je–Jl; Portage, Jl; Gowanda; Ithaca; McLean, Je; Voorheesville, Je (Leon).

D. retinens V. C. & A. Rock Glen, Jl (MCV); Tompkins Co, Je; **SI:** Richmond, *Bs* (MCV), paratype.

D. ruficornis Lw. Niagara Falls, Jl; Grand I., Aug (MCV); E. Aurora, Jl.

D. scapularis Lw. Lewiston, May; Erie Co, Jl–Aug (MCV); Ballston L., Aug, *Leon* (Curr); Voorheesville, Jl, *Leon* (Curr).

D. scoparius Lw. Adirondacks (Joh); Saranac Inn, Jl; Manlius; Erie Co, Je–Jl (MCV); Jamestown, Je (MCV); Tompkins Co, Je–Aug; Albany (Yg); Poughkeepsie.

D. serratus VanD. **LI:** Cold Sp. Harb., Je, Aug, *Ds & Bs* (MCV).

D. setifer Lw. N. Elba, Jl, *Leon* (Curr); Niagara Falls, Sep; Erie Co, May–Aug (MCV); Little Valley, Aug; Manlius, Aug; Ithaca; Trenton Falls; Hoversville, Je, Ballston L., Aug, *Leon* (Curr); Albany, Je, *Bish* (Curr); **SI:** Arrochar, Jl, *Bs* (MCV); **LI:** Wading R., Sep, *Bs* (MCV).

D. setosus Lw. Erie Co, Je (MCV); **SI:** Richmond, *Bs* (Beq).

D. slossonae V. C. & A. Upper Ausable L., Jl (Beq); pond at foot of Mt. Redfield, 2500 ft., Jl (Beq); Colden, Jl; Salamanca, Jl (MCV); Little Valley, Aug.

D. sincerus Mel. E. Aurora, Je (MCV); Johnstown, Aug (Curr-NYS).

D. sincerus var. **subdirectus** V. C. & A. Elm L., Aug, *Yg* (Curr).

D. socius Lw. Winfield, Je, *Leon* (Curr); Salamanca, Jl (MCV).

D. socius var. **gladius** V. C. & A. Tonawanda, Aug; Niagara Falls, Jl; Erie Co, Je–Aug (MCV); Watervliet Reservoir, Aug, *Leon* (Curr).

D. splendidus Lw. Adirondacks, Je; L. Clear, L. Placid, Je (NYS); Buffalo, Je (MCV); Albany, Je (NYS).

D. stenhammeri Zett. L. Tear, Jl (Beq).

D. tener Lw. Grand I., Aug (MCV); **LI:** Greenport, Jl (Leon).

D. terminalis Lw. Manlius, Aug; Grand I., Aug (MCV); Tonawanda, Aug; Genesee; Voorheesville, Jl, *Leon* (Curr).

D. tonsus Lw. Irving, Jl (MCV); **LI:** Sands Pt., May–Je, *Bs* (MCV); Orient, Jl (Beq).

D. trisetosus VanD. Saranac Inn, Jl (NYS); Colden, May (MCV); McLean, Je–Jl.

D. variabilis Lw. Mt. Marcy, 4800 ft., Jl (Beq); L. Tear, 4300 ft. (Beq); Wells, Jl, *Yg* (Curr); Essex Co, Aug; Keene Val., Aug (NYS); Elizabethtown, Aug, *Yg* (NYS); Manlius, Jl–Sep; Niagara Falls, Sep; Erie Co, Jl–Sep (MCV); Little Valley, Jl; Ithaca, Jl, Sep; **LI:** Wading R., Cold Sp. Harb., Sep, *Bs* (MCV).

D. versutus V. C. & A. Niagara Falls, Je (MCV).

D. vigilans Ald. Tonawanda, Aug; Erie Co, Je–Jl (MCV).

D. virga Coq. W. Winfield, Je, *Leon* (Curr-NYS); Wells, Jl, *Yg* (Curr-NYS); Albany, Je (Curr-NYS).

D. virginiensis V. C. & A. Wells, Jl, *Yg* (Curr).

D. vittatus Lw. Wells, Jl, *Yg* (Curr); Manlius, Aug; Genesee Co; Clyde, Jl 27, *Bish* (Leon); Erie Co, Je–Sep; Little Valley, Aug (MCV); Ithaca, Je–Aug; Syracuse, *Blkm* (Hine); Voorheesville, Jl, *Leon* (Curr); Nassau, Jl 8 (Leon); Albany, Je (Curr); W. Nyack, Jl, *Bs* (MCV, Beq); **SI:** Watchogue, Richmond, *Bs* (MCV).

GYMNOPTERNUS Loew

G. albiceps Lw. Erie Co, Je (MCV); Ithaca.

G. barbatulus Lw. Base of Mt. Redfield, 2500 ft., Jl, *Bs* (MCV); Hague, Jl, *Leon* (Curr); Tompkins Co, Je–Jl; Clayville, Je, *Leon* (Curr); Voorheesville, Jl, *Leon* (Curr); **SI:** Watchogue, May, *Bs* (MCV); Oakwood, *Bs* (Beq).

G. chalcochrus Lw. Erie Co, Je (MCV); Ellis; Tompkins Co.

G. coxalis Lw. Manlius (MCV).

G. crassicauda Lw. Wells, Jl, *Yg* (Curr); Erie Co, Je–Aug (MCV); Tompkins Co, Je; Voorheesville, Jl, *Leon* (Curr); Albany, Je, *Yg* (Curr); W. Nyack, Jl, *Bs* (MCV).

G. debilis Lw. Tompkins Co, Je (MCV).

G. despicatus Lw. Erie Co, Je–Aug (MCV); W. Nyack, Jl, *Bs* (MCV); **LI:** Farmingdale, Je, *Bs* (MCV).

G. difficilis Lw. Erie Co, Je–Aug (MCV); McLean, May; Albany, Je; Wells, Jl; Chapel Pond, Je; **SI:** New Dorp, Je, Richmond, Je, Watchogue, *Bs* (MCV); **LI:** Orient, Jl (Beq).

G. exilis Lw. W. Nyack, Jl (Beq); Speculator, Jl, *Yg*; Wells, Jl; Adirondack Lodge, Jl.

G. flavitarsis VanD. Gloversville, *Alex* (MCV-CU), holotype.

G. flavus Lw. Speculator, Aug; Niagara Falls, Aug (MCV); Colden, Aug; Ithaca, Jl; Albany.

G. frequens Lw. Upper Ausable L., Jl, *Bs* (MCV); Wells, Speculator, Jl, *Yg* (Curr); Gloversville (MCV-CU); Hague, Aug, *Leon* (Curr); Peru (MCV-CU); Northampton, Je, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Erie Co, Je–Aug (MCV); Tompkins Co, including Ringwood, Je–Jl; Albany, Je (Curr-NYS).

G. humilis Lw. Erie Co, May–Jl (MCV); McLean, May; Albany, Je.

G. laevigatus Lw. Hamburg, Je (MCV).

G. lunifer Lw. W. Winfield, Je, *Leon* (Curr); Niagara Falls, Jl; Erie Co, Je (MCV); Wells, Jl, *Yg*.

G. maculiventris VanD. **LI:** Cold Sp. Harb. (MCV).

G. meniscus Lw. Wells, Jl, *Yg* (Curr).

G. nigricera VanD. **SI:** New Dorp, Watchogue, *Bs* (MCV).

G. nigrocoxa VanD. Poughkeepsie, Jl, *Yg*; **SI:** Watchogue, Jl, *Bs* (MCV).

G. obtusicauda VanD. Old Forge, Long L., Aug (MCV-CU), paratype; McLean Bogs, May 30 (MCV-CU), paratype.

G. opacus Lw. Erie Co, Je–Aug (MCV); McLean, Jl; W. Nyack, Jl (Beq); Shrub Oak, Aug, *Bs* (MCV); **LI:** Sands Pt., Jl, *Bs* (MCV).

G. parvicornis Lw. **LI:** Pennequid Barrens, Jl (Beq).

G. phyllophorus Lw. L. George; Wells, Jl, *Yg*; Erie Co, Je (MCV); **SI:** Watchogue, *Bs* (MCV).

G. politus Lw. "NY" (Lw); Speculator, Aug; Northampton, Je, *Yg*; **LI:** Greenport, Jl.

G. robustus VanD. Manlius, *SmHH* (MCV-CU), holotype.

G. scotias Lw. Mt. Whiteface, summit, Jl, *Fbs* (MCV-CU); Grand I., Je (MCV); W. Nyack, Jl, *Bs* (MCV).

G. spectabilis Lw. Colden; Lancaster; Gowanda, Je (MCV); McLean, Je–Jl; Voorheesville, Je, *Leon* (Curr).

G. subdilatatus Lw. W. Nyack, Jl, *Bs* (MCV).

G. subulatus Lw. Upper Ausable L., Jl (Beq); Speculator, Je–Aug, *Yg* (Curr); Erie Co, Je–Jl (MCV); Ithaca, Jl; Trenton Falls.

G. ventralis Lw. Erie Co, Je–Aug (MCV); Little Valley, Je; Albany, Je (Curr-NYS); **SI:** Richmond, Je, *Bs* (MCV); **LI:** Orient, Jl (Beq).

G. vernaculus VanD. Erie Co, Je (MCV).

HERCOSTOMUS Loew

H. ornatus VanD. Williamsville, Aug (MCV), types (Psyche, vol. 28, p. 129); Sands Pt., Jl, *Bs* (MCV).

H. (Proarchus) violaceus VanD. Dayton, Jl (MCV), types; McLean, Jl (MCV-CU).

H. vestitus Mel. **LI:** Rosedale, May (MCV).

PARACLIUS Loew

P. albonotatus Lw. Colden, Aug (MCV); Dayton, Je (MCV); Ithaca, Jl, Taughannock Falls, Je (MCV-CU).

P. alternans Lw. New Rochelle (Lw).

P. angulatus VanD. Colden, Aug (MCV).

P. claviculatus Lw. New Rochelle (Lw); **LI:** Cold Sp. Harb., Aug, *Bs* (MCV).

P. hybridus Mel. **LI:** Sands Pt., Jl, *Bs* (MCV).

P. vicinus Ald. **LI:** Cold Sp. Harb., Sep, *Bs* (MCV); Sands Pt., Jl, *Bs* (MCV).

TACHYTRECHUS Loew

T. binodatus Lw. Northville, Je, *Yg* (Curr); E. Aurora, Jl–Aug (MCV); Dayton, Jl (MCV); McLean, Jl; Saratoga.

T. moechus Lw. Wells, Jl, *Yg* (Curr); Portage, Jl; Erie Co, Jl (MCV); Rock Glen, Jl (MCV); Little Valley, Aug; Trenton Falls; Hoversville, Je, *Leon* (Curr); W. Nyack, Jl (Beq).

T. vorax Lw. Erie Co, Aug (MCV); Rock Glen, Jl (MCV); McLean, Jl, *Sib*; Stony Pt., Je 27, *Ds* (MCV); W. Nyack, Jl, *Bs* (MCV); **SI:** Richmond, *Bs* (MCV); **LI:** Wading R., Sep, *Bs* (MCV).

PELASTONEURUS Loew

P. abbreviatus Lw. New Rochelle, Je (Lw); **LI:** Cold Sp. Harb., Sep, Sands Pt., Jl, *Bs* (MCV).

P. laetus Lw. Buffalo, May–Aug (MCV).

P. lamellatus Lw. "NY" (Lw); **LI:** Gardiners I., Aug, Cold Sp. Harb., Oct (Beq).

P. longicauda Lw. "NY" (Lw); **LI:** Cold Sp. Harb., Sep (MCV).

P. lugubris Lw. Manlius; Buffalo, Aug (MCV); Trenton Falls; **SI:** Watchogue, *Bs* (Beq); **LI:** Sands Pt., *Bs* (MCV).

P. neglectus Wheel. Lewiston, Aug; Lancaster, Je (MCV); Grand I., Aug; Albany.

P. ramosus VanD. Rock Glen, Jl (MCV).

P. vagans Lw. Wells, Jl, *Yg* (Curr); W. Winfield, Je, *Leon* (Curr); Manlius, Aug; Erie Co, May–Aug (MCV); Jamestown, Je (MCV); Rock Glen, Jl (MCV); Ithaca, Je–Aug; Albany, Je (Curr-NYS); Watervliet Reservoir, Aug, *Leon* (Curr); Voorheesville, Jl, *Leon* (Curr); Ballston L., Aug, *Leon* (Curr); W. Nyack, Jl, *Bs* (MCV); **SI:** Richmond, *Bs* (MCV); **LI:** Gardiners I., Aug (Beq).

FAMILY **EMPIDIDAE** [99b]

DRAPETIS Meigen

D. aliternigra Mel. Cold Sp. Harb. (Mel).

D. pubescens Lw. "NY" (Lw).

D. septentrionalis Mel. Cold Sp. Harb. (Mel).

D. spectabilis Mel. Cold Sp. Harb. (Mel).

PLATYPALPUS Macquart

P. aequalis Lw. Niagara Falls, Je; E. Aurora, Je, *MCV*; Ithaca, Jl (Mel); Manlius; Albany, Je.

P. apicalis Lw. Woodhull L., Aug; Cold Sp. Harb.

P. callithrix Mel. Niagara Falls (Mel).

P. coquilletti Mel. **LI:** Bayville, Bks (Mel).

P. crassifemoris Fitch. Ithaca; **LI:** Cold Sp. Harb.; Sea Cliff (Mel).

P. discifer Lw. Buffalo, Erie Co, Ap–Sep, *MCV*; McLean, Je–Jl, *Sib.*

P. flammifer Mel. Ithaca; E. Aurora, *MCV* (Mel).

P. flavirostris Lw. Erie Co, Je–Jl, *MCV*.

P. hastatus Mel. Geneva (Mel).

[99b] The list for this family has been checked by Dr. A. L. Melander.

P. hians Mel. var. **fuscohalteratus** Mel. Ithaca (Mel).
P. lateralis Lw. "NY" (Mel); McLean, Je, *Sib.*
P. mesogramma Lw. "NY" (Lw); E. Aurora, Aug, *MCV.*
P. pachycnema Lw. Tarrytown (Lw).
P. pectinator Mel. Niagara Falls (Mel).
P. sutor Mel. "NY" (Mel).
P. tersus Coq. Woodworth's L., Aug.
P. trivialis Lw. Axton, Je; Erie Co, Jl, *MCV.*
P. versutus Mel. Ithaca (Mel).

TACHYPEZA Meigen

T. fenestrata Say. Hamburg, *MCV*; Gowanda (Mel).
T. rapax Lw. Erie Co, May, Aug, *MCV.*
T. rostrata Lw. "NY" (Lw).

TACHYDROMIA Meigen

T. maculipennis Wlk. (*pusilla* Lw.). Erie Co, May, Je, *MCV*; Geneva (Mel); Albany, Je (NYS); **LI:** Sea Cliff (Mel).

CHERSODROMIA Walker

C. houghii Mel. **LI:** Cold Sp. Harb., Oak I., Goose I. (Mel).

COLOBONEURA Melander

C. inusitata Mel. **LI:** Cold Sp. Harb., Oak I. (Mel).

CHELIPODA Macquart

C. albiseta Zett. Ithaca (Mel).

HEMERODROMIA Meigen

H. capta Coq. Wells, Jl, *Yg.*
H. empiformis Say. "NY" (Mel).
H. notata Lw. McLean, Sep, *Sib.*
H. palloris Coq. Woodworth's L., Aug; Hamburg, May, *MCV.*
H. rogatoris Coq. Ithaca, Je (Mel).
H. scapularis Lw. Old Forge (Ndm); Beaver Kill, Aug (CnJr).
H. valida Lw. "NY".

CHIROMANTIS Rondani

C. vocatoria Fall. Speculator, Aug (NYS); Ithaca.

ROEDERIODES Coquillett

R. juncta Coq. Saranac Inn, Jl 29 (Coq).

CLINOCERA Meigen

C. binotata Lw. "NY" (Lw).

C. conjuncta Lw. "NY" (OS-AM).

C. hamifera Mel. (MS.). Ithaca, Ap (Mel).

C. lineata Lw. Ithaca, Ap (Mel).

C. maculata Lw. "NY"; McLean, Sep, *Sib.*

C. taos Mel. "NY".

SYNECHES Walker

S. pusillus Lw. Ithaca, Je–Jl (Mel).

S. rufus Lw. Erie Co, May–Aug, *MCV* (Mel).

S. simplex Wlk. Erie Co, Je; Tompkins Co, Je–Aug (Mel); Albany, Je; Freeville (Mel); **LI:** Cold Sp. Harb., Jl (Mel).

S. thoracicus Say. Tompkins Co, Je–Aug (Mel); Erie Co, Je–Aug; Ithaca, Je; Gowanda, *MCV* (Mel).

SYNDYAS Loew

S. dorsalis Lw. "NY" (Lw); Hamburg, *MCV* (Mel).

S. polita Lw. Speculator, Jl (NYS); **LI:** Cold Sp. Harb. (Mel).

EUHYBOS Coquillett

E. duplex Wlk. Ithaca, McLean (MCV).

E. nigripes Mel. Ithaca and vic., Je (Mel).

E. subjectus Wlk. Slaterville, Je (Mel); McLean, Jl (Mel).

E. triplex Wlk. Erie Co, May, Je, *MCV*; Niagara Falls, Je (Mel); Manlius; Trenton Falls; Albany, Jl; McLean, Je–Jl, *Sib.*

HYBOS Meigen

H. reversus Wlk. Trenton Falls (Wlk); S. Wales; Erie Co, Jl–Aug, *MCV*; McLean, Aug, Sep, *Sib*; **LI:** Cold Sp. Harb.

H. slossonae Coq. Speculator, Jl; Erie Co, Jl–Aug, *MCV*; McLean, Aug–Sep, *Sib*; **LI:** Cold Sp. Harb.

OEDALEA Meigen

O. ohioensis Mel. Ithaca (Mel).

O. pruinosa Coq. Gowanda, *MCV*, Ithaca (Mel).

TRICHINA Meigen

T. nura Mel. Gowanda, *MCV* (Mel).

ANTHALIA Zetterstedt

A. bulbosa Mel. Kiamesha (Mel).

LEPTOPEZA Macquart

L. compta Coq. Speculator, Aug; Niagara Falls, Je (CnJr); Erie Co, Je–Jl, *MCV*; Ithaca, Je–Jl (Mel); Albany, Je; McLean, Je, *Sib.*

L. disparilis Mel. Little Valley, Je, *MCV.*

L. rufipes Meig. Niagara Falls, Je (CnJr); Ithaca (Mel).

OCYDROMIA Meigen

O. glabricula Fall. Erie Co, May–Sep, *MCV*; Trenton Falls; Tompkins Co, Je, Aug–Sep, *Sib* (Mel); Hamburg.

BLEPHAROPROCTA Loew

B. binummus Lw. Niagara Falls, Je (Mel); Ithaca.

B. serratula Lw. Erie Co, May–Je, *MCV*; E. Aurora, May–Jl; Ithaca, Je; Niagara Falls, Je (Mel).

PACHYMERIA Stephens

P. pudica Lw. Nyack, *Schott* (Beq); Ithaca.

EMPIS Linnaeus

E. amystis Wlk. "NY" (Wlk).

E. armipes Lw. "NY" (Lw).

E. cucuminifer Mel. Hillburn, *Schott* (Beq).

E. humile Coq. McLean (Mel).

E. laevigata Lw. L. Tear, Mt. Skylight (Beq).

E. longipes Lw. L. George, *OS* (Lw); Niagara Falls, Je (Mel); Erie Co, May, *MCV.*

E. nuda Lw. Ithaca (Mel).

E. otiosa Coq. Hamburg, May, *MCV.*

E. pallida Lw. "NY" (Lw).

E. poeciloptera Lw. "NY" (Lw); Erie Co, Je.

E. rufescens Lw. Axton, L. Placid, Je (NYS).

E. sordida Lw. Rensselaer; E. Aurora, Je.

E. stenoptera Lw. Holland (Mel).

HILARA Meigen

H. femorata Lw. Niagara Falls, Je; Lancaster, Je, *MCV*; Ithaca (Mel).

H. gracilis Lw. Elizabeth, Aug (NYS); McLean, Aug, *Sib*; **LI:** Cold Sp. Harb. (Mel).

H. leucoptera Lw. **LI:** Sheepshead Bay, Je.

H. macroptera Lw. McLean, Je, *Sib.*

H. mutabilis Lw. Saranac Inn, Je (Coq); Albany.

H. testacea Lw. New Rochelle (OS).

H. tristis Lw. Axton, Je (Joh); Erie Co, May–Je, *MCV*; McLean, Je, *Sib*; Upper Ausable L. (Beq).
H. umbrosa Lw. Elm L., Jl (NYS); Hamburg, Je, *MCV*.
H. unicolor Lw. Axton, Je.

OREOGETON Schiner

O. obscura Lw. Holland, May, *MCV*.

CYRTOMA Meigen

C. femorata Lw. Erie Co, May, *MCV*; McLean, Je, *Sib*.
C. halteralis Lw. Speculator, Jl (NYS); Erie Co, May–Je, *MCV*.
C. longipes Lw. Speculator, Jl; Erie Co, Je–Aug, *MCV*; Albany, Sep (NYS); McLean, Jl, *Sib*.

RHAMPHOMYIA Meigen

R. amplipedis Coq. **LI**: Yaphank (Mel).
R. angustipennis Lw. "NY" (Lw).
R. aperta Lw. Nineveh, Ap (NYS).
R. basalis Lw. Essex Co (NYS); Gowanda, Je, *MCV*.
R. brevis Lw. Nassau, May (NYS); N. Evans, May, *MCV*.
R. clavigera Lw. Nassau (NYS).
R. cophas Wlk. "NY" (Wlk).
R. corvina Lw. "NY" (Lw).
R. daria Wlk. "NY" (Wlk).
R. dimidiata Lw. Hamburg, E. Aurora, May, Aug, *MCV*.
R. frontalis Lw. Hamburg, May; N. Evans, May, *MCV*; Albany, May (NYS).
R. fumosa Lw. "NY" (Lw); Ithaca, *Leon* (Joh).
R. gilvipes Lw. Adirondacks, Jl (NYS); Buffalo, Je; Grand I., Je; L. Tear (Beq).
R. gracilis Lw. Elizabeth, Aug (NYS); McLean, Aug, Sep, *Sib*; Oliverea, Catskills (Beq).
R. irregularis Lw. Colden, May.
R. laevigata Lw. Erie Co, Je, *MCV*.
R. liturata Lw. Holland, May, *MCV*.
R. longicauda Lw. Albany, Jl (NYS); Poughkeepsie, Je.
R. luctifera Lw. "NY" (Lw); Ithaca (Mel).
R. luteiventris Lw. Holland, May, *MCV*; L. Tear (Beq).
R. macilenta Lw. Mt. Marcy, Jl (NYS).
R. manca Coq. **LI**: Cold Sp. Harb. (Mel).
R. minytus Wlk. Nassau, May (NYS).
R. mutabilis Lw. Nassau, May (NYS); McLean, Sep, *Sib*.
R. nigricans Lw. Axton, Je; Nassau, May (NYS).
R. polita Lw. Gowanda, Je, *MCV*.
R. pulchra Lw. "NY" (Lw).
R. pulla Lw. Albany, May (NYS); McLean, Je, *Sib*.

R. rustica Lw. Axton, Je.
R. sordida Lw. "NY" (Lw).
R. testacea Lw. Karner, Ap (NYS).
R. umbrosa Lw. Mt. Marcy, L. Tear (Beq).
R. valga Coq. Poughkeepsie, May (NYS).
R. virgata Coq. Axton, Je.

FAMILY **LONCHOPTERIDAE**

LONCHOPTERA Meigen

L. furcata Fall. L. Tear, 4300 ft (Beq); W. Nyack, *Beq* (Jn).

FAMILY **PHORIDAE**[100]

TRUPHEONEURA Malloch

T. microcephala Lw. Ithaca, Ap, *Joh* (Mall); Albany, Ap, *Yg*; Erie Co, Aug–Oct (MCV).

CHAETONEUROPHORA Malloch

C. luggeri Ald. Niagara Falls, Je; E. Aurora, Je, Aug (MCV); Ithaca, May, *Joh* (Mall).
C. olympiae Ald. Ithaca, *Joh* (Mall).
C. spinipes Coq. Ithaca, *Joh* (Mall).

PARASPINIPHORA Malloch

P. bergenstammi Mik. Ithaca, Jl (Brues).
P. multiseriata Ald. Wells, Jl (Yg); E. Aurora, Aug (MCV); Ithaca (Brues).
P. pachyneura Lw. Colden, May (MCV).
P. slossonae Mall. Ithaca, Je, *Joh* (Mall).
P. spinulosa Mall. Ithaca, *Joh* (Mall).

DOHRNIPHORA Dahl

D. concinna Meig. (*nitidifrons* Brues). Erie Co, Jl–Sep (MCV); Rochester, Oct (MCV); Ithaca, Jl–Sep (Brues).
D. venusta Coq. Ithaca, Feb (Brues).

HYPOCERA Lioy

H. ehrmanni Brues. Niagara Falls, May (MCV).
H. flavimana Meig. Gloversville, Jl; Albany, Ap; McLean, Ap, Sep, *Sib* (Joh).
H. johnsoni Brues. **LI:** Wyandanch, *Schott* (Beq).
H. mordellaria Fall. Colden, May (MCV).

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[100] The manuscript of the list for this family has been checked by C. T. Brues, who has made several corrections and additions.

PHALACROTOPHORA Enderlein

P. speirae Brues. Grand I., Je (MCV).
P. longifrons Brues. Ithaca, *Joh* (Mall).

MEGASELIDA Rondani

(*Aphiochaeta* Brues)

M. agarici Lint. **LI:** Glen Cove, Oct (Mall).
M. albidohalteris Felt. Erie Co, May, Oct (MCV); Ithaca, Je.
M. aletiae Comst. Ithaca, *Joh* (Mall).
M. borealis Mall. N. Evans (MCV).
M. brunnipes Mall. Lancaster, Mar (MCV).
M. cayuga Mall. Ithaca, Aug, *Joh* (Mall).
M. ciliata Zett. Ithaca, Aug, *Joh* (Mall).
M. difficilis Mall. Ithaca, Aug, *Joh* (Mall).
M. flava Fall. Buffalo, Grand I., Jl; Niagara Falls, Jl (MCV); Ithaca, Aug (Mall).
M. fungicola Coq. Ithaca (Brues).
M. inornata Mall. Ithaca, *Joh* (Mall).
M. iroquoiana Mall. Ithaca, *Joh* (Mall).
M. johannseni Mall. Ithaca, *Joh* (Mall).
M. lutea Meig. Ithaca, *Joh* (Mall).
M. minor Zett. Ithaca (Brues).
M. nigriceps Lw. Ithaca (Brues); NYC (Beq).
M. peregrina Mall. Niagara Falls, Jl (MCV).
M. picta Lehm. Colden; N. Evans, May (MCV); Ithaca (Mall).
M. pulicaria Fall. Buffalo (MCV); Ithaca (Mall).
M. ruficornis Meig. Ithaca, Joh (Mall).
M. rufipes Meig. Fulton Co; Buffalo, Je, Sep (MCV); Ithaca, Jl (Mall); McLean, *Claas* (Joh); Albany, Sep, Ap; NYC (Brues).
M. rusticata Mall. Ithaca, Ap, *Joh* (Mall).
M. scalaris Lw. Colden; Lancaster, May, Je (MCV).
M. straminea Mall. Ithaca, Aug, *Joh* (Mall).
M. straminipes Mall. Ithaca, Ap, Aug, *Joh* (Mall).
M. subatonella Mall. Ithaca, *Joh* (Mall).
M. tertia Brues (*inaequalis* Mall.). Ithaca, *Joh* (Mall).

APOCEPHALUS Coquillett

A. coquilletti Mall. Ithaca, Oct (Joh).
A. wheeleri Brues. Colden, Aug (MCV).

GYMNOPHORA Macquart

G. quartomollis Schmitz (*arcuata* auct. not Meig.). Niagara Falls, Je (Jn); Erie Co, Je, Oct (MCV); Ithaca, Je–Jl.

PHORA Latreille

(*Trineura* Meigen)

P. aterrima Fab. Fulton Co, Aug; Chapel Pond, Je, *Leon* (Yg); Ithaca, May, Sep, *Joh* (Mall); Albany, May; NYC (Brues).

P. velutina Meig. L. Placid, Aug (MCV).

CONICERA Meigen

C. dauci Meig. Westfield, Jl; Ithaca, Aug; Sullivan Co (Brues).

PULICIPHORA Dahl

P. glacialis Mall. Ithaca.

FAMILY PLATYPEZIDAE

AGATHOMYIA Verrall

A. canadensis Jn. McLean, Aug, *Sib* (Joh).

A. cushmani Jn. Boston, Sep (MCV).

A. notata Lw. Niagara Falls, Jl; Erie Co, Jl, Aug (MCV).

A. perplexa John. Elma, Aug 24 (MCV); McLean, Sep (Sib).

A. talpula Lw. Colden, May (MCV); Cayuga L. (Joh).

A. vanduzeei Jn. Springville, Sep (MCV); Colden, Aug (MCV); McLean, Sep, *Sib* (Joh).

CALLIMYIA Meigen

C. venusta Snow. Elizabethtown, Aug (Yg); Lancaster, Je (MCV).

PLATYPEZA Meigen

P. anthrax Lw. Niagara Falls, Sep (MCV); Little Valley, Jl (MCV); Ithaca, Jl–Sep (Joh).

P. flavicornis Lw. Elma, Colden, E. Aurora, Niagara Falls, Aug–Sep (MCV).

P. infumata Haliday. E. Aurora, Gowanda, Colden, May–Jl (MCV).

P. minorata Bks. Colden, Aug (MCV).

P. pallipes Lw. (*Calotarsa ornatipes* Towns.). Ithaca (Bks); Ft. Montgomery, *Schott* (Beq).

P. taeniata Snow. Niagara Falls, Sep (MCV); E. Aurora, Aug; Boston, Sep, Little Valley, Jl (MCV); Elmira, Oct; Ithaca, Sep (Jn).

P. velutina Lw. Niagara Falls, Je–Jl (Jn); E. Aurora, Aug–Sep (MCV); Lancaster, Aug (MCV); Jamestown, Je (MCV); Ithaca, Jl–Sep; **SI** (Beq).

PLATYPEZOIDES Johnson

P. diversa Jn. Niagara Falls, Sep, *MCV* (Jn), paratype.

MICROSANIA Zetterstedt

M. stigmaticalis Zett (*Platycnema imperfecta* Lw.). Ithaca, May (Joh).

FAMILY **PIPUNCULIDAE**

(*Dorylaidae*)

CHALARUS Walker

C. spurius Fall. Niagara Falls and vic., Jl (MCV); Ithaca vic., May–Jl (Joh); Albany, May.

VERRALLIA Mik

V. pilosa Zett. **LI:** Wyandanch, Jl (Beq); foot of Cliff Mt., Essex Co, 3000 ft. (Beq).

NEPHROCERUS Zetterstedt

N. daeckei Joh. Rock City, Je (Snn); Poughkeepsie, Je; **LI**, Jl (Jn).

PIPUNCULUS Latreille

P. aequus Cress. Ft. Montgomery, *Schott* (Beq).
P. affinis Cress. Rock City, Je; Vandalia, Je; Ithaca and vic., May–Jl (Joh).
P. appendiculatus Cress. Niagara Falls, Je (MCV); **LI:** Sea Cliff (CnJr).
P. atlanticus Hough. Axton, Je (Joh); Erie Co, May–Je; Niagara Falls, Je (MCV); Ithaca, Je, Sep (CnJr); Poughkeepsie, Je; **LI.**
P. caudatus Cress. **LI:** Sea Cliff, Sep (CnJr).
P. cingulatus Lw. Johnstown, Je; Erie Co, Je, Sep (MCV); Vandalia; Ithaca, Aug, Sep (CnJr).
P. cingulatus var. **velutinus** Cress. Lancaster, Je, N. Evans, Aug (MCV).
P. confraternus Bks. **LI:** Sea Cliff (Bks).
P. coquilletti Kertesz. Long L., Aug (Kertesz).
P. discolor Bks. Ithaca, Jl (Bks).
P. fuscus Lw. Colden, Aug (MCV); Ithaca, Je (Joh); Poughkeepsie, Je.
P. houghi Kertesz (*femoratus* Cress.). Elma, Aug (MCV); Ithaca, Je–Sep (CnJr); Colden, Aug (MCV).
P. horvathi Kertesz. Long L., Aug; Salamanca, Jl (MCV); Ithaca, May, Jl, Sep (CnJr).
P. minor Cress. Erie Co, May–Aug (MCV); Ithaca and vic., May–Aug (CnJr).
P. nigripes Lw. Ithaca (CnJr); **SI** (Beq).
P. pallipes John. Ithaca, Aug (CnJr); Upper Ausable L. (Beq).
P. republicae Wlk. (*fuscus* Lw.?). "NY" (Wlk).
P. scoparius Cress. Beaver Kill (CnJr).
P. similis Hough. Erie Co, Je–Sep (MCV); **LI:** Sea Cliff (CnJr).
P. sororius Cress. Ithaca (CnJr); **LI:** Sea Cliff.
P. subvirescens Lw. Axton, Je; E. Aurora, Jl (MCV); Ithaca, May–Aug.
P. tarsalis Cress. Ithaca, Jl (CnJr).

FAMILY **SYRPHIDAE**

MICRODON Meigen

M. champlaini Curr. Ft. Montgomery, *Schott.*
M. cothurnatus Bigot. Ithaca, Je.

M. globosus Fab. (*fuscipennis* auct. not Macq.). Keene Val., Je (Not); Hamburg, Jl (MCV); Ithaca; McLean; Katonah, Je; Ft. Montgomery, *Schott*; **SI,** *Bs.*

M. megalogaster Snow (*bombiformis* Towns.). Little Valley, Jl (MCV); **SI,** Je, *Ds*; **LI:** Jamaica, Je, *Ds*; Jericho (Bell).

M. tristis Lw. Old Forge, Je; Axton, Je; Black Br., Je; Niagara Co, May–Je (MCV); Little Valley, Je (MCV); Ithaca, Je–Jl; Binghamton, Ap; Hudson R. Val.; Ft. Montgomery (Schott); **SI,** Je, *Bs*; **LI:** Farmingdale, Je, *Bs.*

CHRYSOTOXUM Meigen

C. derivatum Wlk. Saranac L., Jl; Poughkeepsie, Je.

C. fasciolatum DeG. Keene Val. (Not).

C. laterale Lw. Keene Val.; McLean, Sep, *Hd* (Joh); Oliverea (Beq); **LI:** Huntington (Schott); Gardiners I. (Beq).

C. perplexum John. L. George, Sep, *Leon* (Snn).

C. pubescens Lw. (*luteopilosum* Curr.). Erie Co, Aug–Sep (MCV); Inwood, NYC (Schott); **SI** (Bs); **LI** (Bs).

MIXOGASTER Macquart

M. breviventris Kahl. W. Nyack, Jl; Mosholu, Jl–Aug (Bno); L. Oscawana, Interstate Pk., Sep (Bs); **LI:** Yaphank, Sep, *Ds* (CnJr); Cold Sp. Harb., Sep.

CHRYSOGASTER Meigen

C. antitheus Wlk. "NY", type locality. Not recognized. Probably the same as *C. nigripes* Lw.

C. ithaca Snn. Ithaca (Snn).

C. nigripes Lw. Abundant. Colden, Gowanda, Je (MCV); Ft. Potter, Jl; Ithaca, Jl; Poughkeepsie; W. Nyack, Jl, *Bs*; Ft. Montgomery (Schott); **SI,** May (Bs); **LI:** Sea Cliff, Je; Cold Sp. Harb.

C. nitida Wied. Buffalo, Je (MCV); Ithaca, Jl; **SI,** May–Sep (Bs); **LI:** Sea Cliff, Je–Jl.

C. pictipennis Lw. Ithaca; Caroline, May–Je; Ellis, Je; Van Cort. Pk.

C. pulchella Will. Abundant. Old Forge, Jl; Elba, Je (MCV); Ithaca and vic., May–Aug; Albany, May; Van Cort. Pk.

PIPIZA Fallén

P. femoralis Lw. Keene Val. (Not); Hamburg, Je (MCV); Ithaca, May–Je (Snn); Nyack, May, *Bs*; **SI,** May, *Ds.*

P. femoralis var. **albipilosa** Will. Essex Co, Aug; Rock City, *Ds*; Ithaca, Jl; Poughkeepsie, Sep; Pine I.; Nyack (Schott).

P. nigropilosa Will. **SI,** Jl, *Bs.*

P. puella Will. Nyack, *Schott*; **SI** (Beq).

P. quadrimaculata Panz. Keene Val., Je.

PIPIZELLA Rondani

P. apisaon Wlk. (*Pipiza modesta* Lw., *nigribarbis* Lw., *pulchella* Will.). "NY", type locality; **SI:** *Bs*; Richmond, *Ds*; **LI:** Sands Pt., *Bs.*

P. pubescens Lw. Hudson R. val.; Ithaca, Je–Jl; Hillburn, *Schott.*

HERINGIA Rondani

H. salax Lw. (*Pipiza radicum* Walsh & Rly., *P. pistica* Will.). Ithaca; Ft. Montgomery, *Schott*; **SI**, *Bs*; **LI**: Farmingdale, Sands Pt., Wading R., *Bs*.

CNEMODON Egger

C. calcarata Lw. Ithaca, May–Jl.

C. coxalis Curr. Ithaca, Je, *Snn*.

C. pisticoides Will. Essex Co, Jl; Axton, Je; L. Tear, 4300 ft., Jl (Beq); Ithaca, May.

PARAGUS Latreille

P. angustifrons Lw. Fulton Co; Ithaca, May; Ft. Montgomery, Jl (Ds); **SI**, Je–Sep (Bs,Ds); **LI**: Sea Cliff, Sep; Wyandanch (Schott).

P. bicolor Fab. Essex and Fulton Counties, Colden, Lewiston, May–Jl (MCV); Niagara Falls, Je; Ithaca, Je; Ft. Montgomery (Schott); **SI**, May (Bs).

P. tibialis Fall. Axton, Je; Ilion, May; Ithaca, Je; **SI**, Je (Bs); **LI**: Sea Cliff, Jl.

CHILOSIA Meigen

C. orilliaensis Curr. Freeville; McLean; Caroline; Danby, Ap–May, on *Caltha palustris*; Ithaca, *Snn*.

CARTOSYRPHUS Bigot

C. cyanescens Lw. Ithaca, Je–Jl.

C. pallipes Lw. Keene Val., Je (Not); Long L., *Ds*; Cedarville, Je; Ithaca, Jl; L. George, Sep.

C. similis Snn. L. Placid, Sep; Ithaca, Sep; **SI**.

C. slossonae Snn. Keene Val., May (Not).

C. tristis Lw. Keene Val., Je; Ithaca, May–Jl.

CHALCOMYIA Williston

C. aerea Lw. McLean, May.

MYIOLEPTA Newman

M. nigra Lw. Keene Val., Je–Jl (Not); Hamburg, Je (MCV); Ithaca, May; West Pt. (Ds).

M. varipes Lw. Keene Val., Je (Not); Ithaca.

EUMYIOLEPTA Shannon

E. strigilata Lw. Ithaca, Je.

CALLICERA Panzer

C. johnsoni Hunter. Danby, Je; **SI**: Grasmere, Ap, *Bs*.

FERDINANDEA Rondani

(*Chrysochlamys* Rondani)

F. buccata Lw. Ithaca, May–Je; Suffern, May, *Schott.*

F. dives O.S. Ithaca, Sep; Ft. Montgomery (Schott); **SI,** Aug (Bs).

F. nigripes O.S. Ithaca, May.

BACCHA Fabricius

B. cognata Lw. Ithaca, Jl; **SI,** Aug (Bs).

B. fascipennis Wied. (*aurinota* Wlk.). Keene Val., Jl–Aug; Niagara Falls, Sep, Erie Co, Jl–Sep (MCV); Lake Ridge, Aug; New Baltimore, Aug; Mt. Vernon, Oct; Inwood, NYC (Schott); **SI,** Aug–Sep (Bs); **LI:** Sea Cliff, Jl–Aug; Wading R., Sep, Sands Pt., Jl–Sep (Bs).

B. tarchetius Wlk. Erie Co, Je, Aug, Lewiston, May (MCV); Van Cort. Pk.; **SI,** Sep (Bs).

OCYPTAMUS Macquart

O. fuscipennis Say. Niagara Falls, Sep (MCV); Ithaca; Ft. Montgomery, *Schott*; W. Nyack (Beq); Inwood, NYC, *Schott*; **SI:** Richmond, Jl–Aug, *Ds* (Beq); **LI:** Flushing, Aug, *Ds* (CnJr); Sands Pt., *Bs*; Cold Sp. Harb.; Little Neck, *Schott.*

PYROPHAENA Schiner

P. granditarsus Forst. (*ocymi* Fab.). Old Forge, Aug; Elba (MCV); Pine I., Je, *Ds* (Beq); **SI,** Je (Bs).

P. rosarum Fab. Caroline, May; **LI:** Queens (Schott).

PLATYCHIRUS St. Fargeau et Serville

P. chaetopodus Will. Essex Co (Snn); Ithaca (Snn); Nassau, Jl–Aug; Van Cort. Pk.; **SI,** Je (Bs); **LI.**

P. hyperboreus Staeger. Upper Ausable L.; Axton; Erie Co, May–Aug (MCV); Ithaca; Van Cort. Pk.; **LI:** Glendale (Schott); Queens (Schott); Sea Cliff.

P. peltatus Meig. L. Tear; Erie Co, May–Jl (MCV); Ithaca, May–Je, Aug (Snn); Karner; Nyack (Schott); **LI:** Cold Sp. Harb.; Flushing (Schott).

P. perpallidus Verrall. L. Tear (Beq).

P. quadratus Say. Saranac L.; Erie Co, May–Aug (MCV); Ithaca, Ap–Sep (Bs); Albany; Van Cort. Pk.; **SI,** May–Aug (Bs); **LI:** Glendale (Schott); Queens (Schott).

MELANOSTOMA Schiner

M. mellinum L. Adirondacks; Mt. Whiteface, Jl, *Ds* (Jn); Upper Ausable; Erie Co, May–Sep (MCV); Ithaca, Ap–Sep; Hudson R. Val.; Pine I., Je, *Ds* (Jn); **LI:** Huntington (Schott).

M. montivagum Jn. Mt. Marcy, L. Tear, foot of Cliff Mt. (Beq).

M. obscurum Say. Essex Co; Mt. Skylight; L. Tear; Mt. Marcy; Wilmington, Aug, *Ds*; Erie Co, Ap–Oct (MCV); Rock City, Je, *Ds*; Ithaca, Jl; Oliverea; **SI,** Ap–Nov; **LI:** Sea Cliff, May; Sands Pt., Jl.

LEUCOZONA Schiner

L. lucorum L. var. **americana** Curr. Keene Val., Je (Snn); Mt. Skylight, 4800 ft. (Beq).

DIDEA Macquart

D. fasciata Macq. var. **fuscipes** Will. Erie Co, May–Je (MCV); Ithaca, Je; L. George, Sep; Karner, May; NYC; **SI** (Bs).

SYRPHUS Fabricius

S. amalopis O.S. Old Forge, Jl; Axton, Je; Mt. Marcy, Je–Jl (Beq); Ithaca, May; Nassau, May; Oliverea.

S. arcuatus Fall. Adirondacks, Je; N. Evans, May (MCV); Axton, Je; Keene Val., May–Jl; Mt. Marcy; Ithaca, Ap–Je; **SI,** May–Jl (Bs); **LI:** Kings Pk., Jl (Bs); Jl–Sep.

S. disjectus Will. Keene Val., Jl (Not); N. Evans, May.

S. divisus Will. Niagara Falls, Je; Lancaster, Sep (MCV); Oliverea; **SI,** Sep (Bs).

S. emarginatus Say. Niagara Falls, Je, Gowanda, Aug (MCV); Ithaca, Je–Aug; Ft. Montgomery (Schott); Stony Pt. (Schott); Inwood, NYC (Schott); **SI,** Sep (Bs); **LI:** Cold Sp. Harb.

S. felix O.S. Piseco L., Aug; Grand I., Sep (MCV); Nassau, May; West Pt., Sep; Ft. Montgomery (Schott); **SI,** May–Sep (Bs); **LI:** Flushing.

S. knabi Snn. Ithaca, Jl–Aug; Ft. Montgomery (Schott); **SI,** May–Sep (Bs); **LI:** Huntington (Schott).

S. latifasciatus Macq. (*abbreviatus* Will. not Zett.). **SI,** Je, *Bs.*

S. laxus O.S. Old Forge, Jl; Essex Co, Jl; Upper Ausable L.; Mt. Skylight; L. Tear; Woodhull L., Aug; L. George, Sep.

S. nitens Zett. Nyack (Schott); **SI** (Curr); **LI:** Farmingdale (Curr).

S. perplexus Osburn. Mt. Marcy; Keene Val., Ap–Jl; Mt. Skylight; Herkimer; Niagara Falls, Sep (MCV); Buffalo, Colden, May (MCV); Rock City, Je, *Ds* (Osburn); Ithaca; Taughannock Falls; Nyack (Schott); Suffern (Schott); White Plains; **SI,** Ap–Sep (Bs); **LI:** Flushing; Queens (Schott).

S. rectus O.S. Herkimer, Aug; Erie Co, Jl–Oct (MCV); Ithaca, Ap–Aug; Ft. Montgomery (Schott); **SI,** Jl–Sep (Bs); **LI:** Sands Pt.; Cold Sp. Harb., Sep (Bs).

S. ribesii L. Adirondacks; Niagara Falls, Je; Erie Co, Sep (MCV); Manlius; Ithaca, Jl; Catskills; West Pt.; Hillburn (Schott); Suffern, May (Bs); Bronx Pk., Jl; **SI:** common (Bs); Clove Val., May, Jl, *Ds* (Beq); Richmond, May, *Ds* (Beq); **LI:** Sea Cliff, Jl; Cold Sp. Harb., Aug, Sands Pt., Je–Oct (Bs).

S. ribesii var. **vittafrons** Sh. Inwood, NYC (Schott).

S. sodalis Will. Mt. Marcy (Beq).

S. torvus O.S. Adirondacks, Jl; L. Tear; Mt. Marcy; Niagara Falls, Je; Buffalo, Ap, Oct (MCV); Ithaca, May; Oliverea; Ft. Montgomery (Schott); **SI,** Ap–May (Bs); Clove Val., *Ds*; **LI:** Flatbush; Glendale (Schott).

S. venustus Meig. Keene Val., May (Not); Oliverea.

S. vitripennis Mg. Inwood, NYC (Schott); **LI:** Flatbush, Flushing (Schott).

S. wiedemanii Jn. (*americanus* Wied.). Abundant. Essex Co, Aug; Niagara Falls, Je; Erie Co, Ap–Sep (MCV); Ithaca; **LI:** Cold Sp. Harb.; Flushing; Flatbush.

EPISTROPHE Walker

(*Stenosyrphus* Matsumura)

E. arcticus Zett. Mt. Marcy (Beq).

E. diversipes Macq. Old Forge, Je; Mt. Marcy, Jl; L. Tear; Ithaca, May, Oct; L. George, Aug–Sep; Catskills, Aug; Oliverea; Inwood, NYC (Schott).

E. fisherii Walton. Ithaca, Je (Snn).

E. genualis Will. Keene Val., Je; L. Tear; Ithaca, May.

E. grossulariae Mg. L. Placid, Aug; Essex Co; Old Forge, Jl; Long L., *Ds*, as *Stenosyrphus lesueurii* Macq.; L. Tear; Mt. Marcy; Erie Co, Ap; Ithaca, May–Je, Aug; L. George, Sep; Saratoga; South L., Catskills, Aug, *Ds*; Oliverea; Ft. Montgomery (Schott).

E. nudifrons Curr. Mt. Marcy, Je, *Fbs* (Curr).

E. xanthostomus Will. Hamburg, May (MCV); L. Keuka, May; Ithaca, May–Aug; Trenton Falls, Je; Hillburn, Pine I. (Schott); **SI:** Richmond, May (Ds); **LI:** Sands Pt., Je.

XANTHOGRAMMA Schiner

X. flavipes Lw. Niagara Falls; Lewiston, May, Erie Co, May–Jl (MCV); Ithaca, Je–Jl; McLean, Je; Poughkeepsie; Ft. Montgomery (Schott); Mosholu, May, *Ds*; **SI,** Je–Aug (Bs); **LI:** Sands Pt., Je, Cold Sp. Harb., Aug (Bs); Gardiners I.

DOROS Meigen

D. aequalis Lw. Keene Val., May–Je; Big Ind. Val. (Pears); Ramapo, May (Ds); **LI:** Wading R. (Ds).

ALLOGRAPTA Osten Sacken

A. obliqua Say. Keene Val., Oct; Mt. Marcy; Erie Co, Je–Oct; Ithaca, Jl–Nov; Albany; Nyack (Schott); Ft. Montgomery (Schott); **SI,** May–Sep (Bs); **LI:** Fire I., Glendale (Schott); Sea Cliff, Jl.

TOXOMERUS Macquart

(*Mesogramma* Loew)

T. geminatus Say. Abundant. Fulton Co; Manlius; Otto; Erie Co, May–Aug (MCV); Ithaca, May–Aug; Albany; E. Jewett, Aug, *Ds*; West Pt., Je, *Ds*; **SI,** Je–Oct (Bs); **LI:** Sands Pt., Jl (Bs); Central Pk.; Glendale; Flatbush.

T. marginatus Say. Abundant. Adirondacks; Upper Ausable L.; Genesee Co, Je, *Ds*; Erie Co, Je–Oct (MCV); Ithaca, Jl–Oct; **SI,** May–Je, Sep (Bs); **LI:** Sea Cliff; Aqueduct, Sep, *Ds*; Fire I. (Schott); Gardiners I.; Wyandanch.

T. politus Say. Erie Co, Aug–Oct (MCV); Ithaca, May–Oct; Albany, Sep; Poughkeepsie, Oct; Ramapo, May, *Ds*; Inwood, NYC (Schott); **SI,** Aug–Sep (Bs); south shore, Jl, *Ds*; Watchogue, May (Ds); **LI:** Barker's Pt., Oct, Wading R., Aug (Bs); Glendale (Schott).

SPHAEROPHORIA St. Fargeau et Serville

S. cylindrica Say. Abundant. Adirondacks; N. Elba, Oct, *Wat*; Manlius; Honeoye Falls, Je, *Ds*; Genesee Co, Je, *Ds*; Erie Co, May–Oct (MCV); Ithaca and vic., May, Oct; Albany; Oliverea; Stony Pt., Je, *Ds*; Southfields (Schott); White Plains; **SI**, common, May–Oct (Bs); Tottenville, Je–Jl, *Ds*; **LI**: Wading R., Je, *Ds*; Flushing; Huntington (Schott); Sea Cliff.

S. menthastri L. Upper Ausable L.; Ithaca, Je–Jl.

SPHEGINA Meigen

S. campanulata Robt. Keene Val., Je (Not); Ithaca, Je.

S. flavimanus Mall. Ithaca (Mall).

S. keeniana Will. Keene Val., Je; Upper Ausable L.; Erie Co, May–Je (MCV); Little Valley, Je (MCV); Ithaca, May.

S. lobata Lw. Keene Val., Je; Erie Co, May–Je; Ithaca, May–Jl; Karner, Jl; **SI**, May (Bs); **LI**: Sea Cliff, May.

S. rufiventris Lw. Keene Val., Je–Jl; Saranac L.; Old Forge; Ithaca, May–Jl; Ft. Edward; Ft. Montgomery (Schott).

NEOASCIA Williston

N. distincta Will. Colden, May (MCV); Ithaca, May.

N. globosa Wlk. W. Winfield, Je (Yg-NYS); N. Fair Haven, Ap–Jl; Erie Co, May (MCV); Ithaca, May–Jl; Freeville; Danby; Hudson R. Val., May; Yonkers; Ft. Montgomery (Schott); **SI**, Je–Jl (Bs); **LI**: Queens (Schott); Sea Cliff, May.

RHINGIA Scopoli

R. nasica Say. Abundant, May–Sep. Manlius; Conesus L., Je, *Ds* (Beq); Ithaca and vic., May–Aug; Hudson R. Val.; Helderbergs, Jl, *Ds*; Oliverea, Je, *Ds*; Ft. Montgomery (Schott); **SI**, May–Sep (Bs); **LI**: Sea Cliff; Long Beach, etc. Common everywhere.

HAMMERSCHMIDTIA Schummel

H. ferruginea Scop. Keene Val., Je (Not).

BRACHYOPA Meigen

B. notata O.S. Keene Val., Je (Not); Ithaca, May.

B. perplexa Curr. "NY" (Curr).

B. vacua O.S. Old Forge, Je; Fourth L., Fulton Chain (Dickerson); Oswego (Snn).

VOLUCELLA Geoffroy

V. bombylans L. subsp. **evecta** Wlk. Adirondacks; N. Fair Haven; Gowanda, Je (MCV); Ithaca, Je–Jl; Taughannock, Je–Jl; Hudson R. Val.; Oliverea; Ft. Montgomery, Southfields (Schott); W. Nyack, Jl (Bs); **LI**: Sea Cliff.

V. bombylans subsp. **evecta** var. **americana** Jn. Oliverea; Ft. Montgomery; **LI**: Flushing, Wyandanch.

V. bombylans subsp. **facialis** Will. var. **lateralis** Jn., Keene Val., Jl (Not).

V. fasciata Macq. **LI:** Gardiners I. (Beq).

V. obesa Fab. **SI** (Bs&Beq).

V. vesiculosa Fab. Ithaca, Je–Jl; Poughkeepsie; **LI:** Cold Sp. Harb.

CONDIDEA Coquillett

C. lata Coq. Ft. Montgomery, Je, *Schott.*

SERICOMYIA Meigen

S. bifasciata Will. Axton, Je.

S. chrysotoxoides Macq. Axton; Keene Val., Je–Oct; Adirondacks; Fulton Co; Upper Ausable; L. Tear; Old Forge; Ray Brook; Portage, Je, *Ds*; Erie Co, Jl–Sep (MCV); Ithaca, Je–Aug; McLean; Caroline; Trenton Falls; Albany; Manlius; Oliverea; Inwood, NYC (Schott); **SI,** Oct, *Ds*; **LI:** Wyandanch; Flatbush; Cold Sp. Harb., Sep (Bs).

S. militaris Wlk. Mt. Whiteface, Jl, *Ds*; Adirondacks, Je–Aug; Keene Val. (Not); Upper Ausable L.; Old Forge; Mt. Marcy; Hamilton Co, *Ds*; Lewiston, May (MCV); Oswego; Erie Co, Je–Sep (MCV); Ithaca; L. George, Je–Sep.

ERISTALIS Latreille

E. aeneus Scop. Erie Co, Sep–Oct (MCV); Karner; NYC, Sep, *Ds* (Beq); **SI:** Ap–Sep (Bs); Watchogue, May, *Ds* (Beq); visits willow catkins, *Ds* (Beq); **LI:** Sea Cliff; Aqueduct, Jl, *Ds* (CnJr); Long Beach; Flatbush; Fire I. (Schott); Sands Pt., Jl (Bs). Enters houses in fall like *E. tenax* (Bs).

E. anthorinus Fall. (*montanus* Will.). White Plains (Snn).

E. arbustorum L. Abundant. Genesee Co, Jl, *Ds*; Ithaca, May–Oct; E. Jewett, Aug, *Ds*; Pine I., *Ds*; South L., Catskills, Aug, *Ds*; **SI,** taken in Mar on coltsfoot blossoms (Bs); Watchogue, Clove Val., Jl–Aug, *Ds*; **LI:** Rockaway Beach, Je, *Ds* (CnJr); Half Way Hollow Hills, Jl, *Ds* (CnJr). Common everywhere.

E. bastardi Macq. Keene Val.; Saranac L.; Mt. Skylight; Old Forge; Alexandria Bay; Manlius; N. Fair Haven; Erie Co, Aug–Sep (MCV); Ithaca, May–Sep; McLean; Albany, May–Oct; South L., Catskills, Aug, *Ds* (Beq); Southfields (Schott); NYC, Aug, *Ds* (Beq); Inwood; **SI,** May–Sep (Bs); **LI:** Canarsie; Oakdale (Bell).

E. brausi Will. (*meigenii* auct., not Wied.). Old Forge; Manlius; Wolcott; Erie Co., Je–Aug; Albany; **LI:** Brooklyn, May, *Ds.*

E. compactus Wlk. McLean; Freeville; Caroline, Ap–Jl; Ithaca (Snn). Abundant on *Caltha palustris.*

E. dimidiatus Wied. Adirondacks; Mt. Marcy; Manlius, Ap–Sep; Erie Co, Je–Sep (MCV); Ithaca; McLean; Albany; Pine I., Je, *Ds*; Southfields (Schott); Oliverea; Hillburn (Schott); Ft. Montgomery (Schott); **SI,** Je–Sep (Bs); visiting willow catkins, May, *Ds;* Arrochar, Sep, *Ds*; Richmond, May; **LI:** Maspeth, Sep; Sea Cliff; Farmingdale; Brooklyn.

E. flavipes Wlk. Fairly abundant. Piseco and Saranac Lakes, Ap–May; McLean, Aug; Erie Co, Sep–Oct (MCV); Oliverea; Poughkeepsie; **SI,** Jl–Sep (Bs), Aug, *Ds* (Jn); **LI:** Sea Cliff, Aug; Wyandanch (Schott); Orient.

E. saxorum Wied. N. Fair Haven, May–Aug; Erie Co, May–Oct (MCV); Ithaca, Je–Jl; McLean; Poughkeepsie; Ft. Montgomery (Schott); **SI,** Je (Bs); **LI:** Sands Pt. (Bs); Gardiners I.

E. tenax L. Very abundant. Adirondacks; Mt. Whiteface, summit and trail, *Ds*; Mt. Marcy, Oct, *Ds*; Erie Co, Jl–Sep (MCV); Ithaca, etc., Ap–Oct; Hudson R. Val.; Debruce, Sep, *Ds*; **SI,** Jan–Oct, *Ds*; **LI:** Central Pk., Yaphank, Montauk, Calverton, Amagansett, Ap–Sep, *Ds* (CnJr). Everywhere.

E. transversus Wied. Very abundant. Adirondacks; Batavia, Je, *Ds*; Erie Co, May–Sep (MCV); Ithaca, May–Sep; Manlius; Pine I., Je, *Ds*; Albany; Mosholu, May, *Ds*; White Plains; **SI:** Richmond, Clove Val., Arrochar, Tottenville, Je–Oct, *Ds*; May–Oct (Bs); **LI:** Wyandanch, May, Yaphank, Sep, *Ds* (CnJr); Gardiners I.; Orient; Sands Pt., Oct (Bs).

TROPIDIA Meigen

T. quadrata Say. Abundant. Erie Co, May–Sep (MCV); Ithaca, Je–Sep; Albany, Jl; Pine I., Je, *Ds*; Ft. Montgomery (Ols); White Plains; **SI,** May–Sep (Bs,Ds); **LI:** Brooklyn; Orient; Queens (Schott); Sea Cliff, May.

HELOPHILUS Meigen

H. bilinearis Will. Ithaca, McLean, Freeville, Ap–May; Van Cort. Pk.; **SI,** Ap, on willow (Bs); **LI:** Flushing.

H. chrysostomus Wied. N. Fair Haven, Jl–Aug; Manlius; Conesus L., Je, *Ds* (Beq); Ithaca and vic., Jl (Bs); Albany; **SI.**

H. conostoma Will. Saranac L.; Potsdam; N. Fair Haven; Erie Co, May–Aug (MCV); Ithaca; White Plains; Yonkers; **SI,** Je, *Ds* (Beq), May–Oct (Bs); **LI:** Brooklyn; Maspeth (Ols); Jamaica; Queens (Schott); Sea Cliff, Je–Jl.

H. distinctus Will. Erie Co, Je–Jl (MCV).

H. divisus Lw. Ithaca, May; **LI:** North Beach (Schott).

H. hamatus Lw. Johnstown, May; Ithaca, Jl (Bs); **SI,** May–Aug (Bs); **LI:** Wading R., May, *Ds* (Jn).

H. integer Lw. "NY"; Ithaca, Je.

H. laetus Lw. Abundant. Johnstown; Buffalo, Je–Aug (MCV); McLean, Jl; Ithaca, Je; Ft. Montgomery (Schott); White Plains; **SI:** May–Jl (Bs); Watchogue, Je, *Ds* (Beq); **LI:** Brooklyn.

H. latifrons Lw. Abundant, May–Oct. Adirondacks; Buffalo, Je (MCV); Ithaca, May–Sep; Hudson R. Val.; **LI:** Flatbush (Schott).

H. lunulatus Mg. Ithaca, Caroline, May; Van Cort. Pk.; **SI; LI:** Forest Hills (Ols).

H. similis Macq. Abundant, May–Nov. Adirondacks; Piseco L., Aug; Manlius; Erie Co, May–Sep (MCV); Ithaca, May–Sep; Trenton Falls; Albany; **SI:** Sep (Bs); Richmond, Jl, Arrochar, Tottenville, Sep, *Ds* (Beq); **LI:** Wyandanch (Schott); Jamaica, Huntington (Schott); Glendale (Schott); Wading R., Sep (Bs).

H. stipatus Wlk. Trenton Falls, type locality; probably the same as *H. conostoma* Will.

MALLOTA Meigen

M. cimbiciformis Fall. Axton; Old Forge; Lewiston, May (MCV); Niagara; Ithaca; Albany, May–Aug; Oliverea; Poughkeepsie, Je–Jl; Pine I. (Ds); **SI,** May–Aug (Bs); **LI:** Sea Cliff.

M. posticata Fab. Adirondacks; Axton; Old Forge; N. Fair Haven, May–Aug; Niagara Falls, Je–Jl; Erie Co, Je–Jl (MCV); Portage, Je, *Ds* (Beq); Otto; Ithaca; Albany; Oliverea; Catskills; West Pt., Je, *Ds* (Beq); Ft. Montgomery (Schott); **SI,** May–Je (Bs); Clove Val., Jl, *Ds* (Beq); **LI:** Central Pk.; Sea Cliff.

MERODON Meigen

M. equestris Fab. Keene Val., Je (Not); Ithaca; **LI:** Brooklyn (Eng).

POLYDONTOMYIA Williston

(*Triodonta* Williston not Bory)

P. curvipes Wied. **SI,** Je–Sep (Bs); **LI:** Sea Cliff, Lynbrook, Je; Long Beach; Manhattan Beach; Kings Pk.; Flatbush (Eng); Rosedale (Schott); Jamaica; Queens.

TEUCHOCNEMIS Osten Sacken

T. bacuntius Wlk. **SI,** May (Bs); Richmond, Je, *Ds*; Willow Br., May, *Ds*.

T. lituratus Lw. Niagara Falls, Je (MCV); Gowanda, Je (MCV); Ithaca; Windsor, May–Je; Poughkeepsie; Ft. Montgomery (Schott); **SI,** May (Bs).

PTERALLASTES Loew

P. thoracicus Lw. Hamburg, Jl (MCV); **SI,** May, *Ds* (Beq), Je–Sep (Bs); **LI:** Sea Cliff, May.

SYRITTA St. Fargeau et Serville

S. pipiens L. Very abundant. Upper Ausable L.; Adirondacks; Fulton Co; Manlius; Sodus Pt., Oct (Bs); Erie Co, May, Sep (MCV); Ithaca, Ap–Oct; Hudson R. Val.; Pine I.; Ft. Montgomery (Schott); **SI,** Jl–Oct (Bs); **LI:** Huntington; Brooklyn; Sea Cliff.

EUMERUS Meigen

E. strigatus Fall. Keene Val.; Buffalo, May–Je, Oct; Geneva, Jl (Felt); Ithaca (Joh); Saratoga Sps., Aug; Schenectady, Jl (Felt); Amsterdam, Jl (Felt); White Plains (Beq); **SI,** Je (Bs).

XYLOTA Meigen

(Including *Xylotomima* Shannon)

X. analis Will. Ithaca, Je.

X. angustiventris Lw. Fulton Co; Niagara Falls, Je; Gowanda, Je (MCV); Ithaca; McLean, Aug; Albany, Je; Hudson R. Val.; W. Nyack; **SI,** Je–Jl, *Ds*.

X. anthreas Wlk. Ithaca, Jl; Trenton Falls.

X. bicolor Lw. Gowanda, Je (MCV); Ft. Montgomery, Southfields (Schott); **SI,** May–Je (Ds,Bs).

X. chalybea Wied. Niagara; Honeoye Falls, *Ds*; Niagara; Ithaca; Caroline; McLean; Poughkeepsie, May–Jl; Pine I. (Ds); **SI:** Richmond, May, *Ds* (Beq); **LI:** Pennequid Barrens.

X. curvipes Lw. var. **satanica** Big. Old Forge; Axton; Keene Val., Je–Aug (Not); Mt. Whiteface, summit, Jl, *Ds* (Beq).

X. ejuncida Say. Fairly abundant, May–Aug. Adirondacks; Lewiston, May (MCV); foot of Cliff Mt.; L. Tear; Erie Co, Je–Jl (MCV); Ithaca, May–Jl; Poughkeepsie; Oliverea; Ft. Montgomery (Schott); **SI:** Ap–Aug, *Ds* (Bs, Beq); Richmond, May, *Ds* (Beq); **LI:** Sands Pt., Je (Bs); Flushing.

X. ejuncida elongata Will. E. Aurora, Jl (MCV).

X. fascialis Coq. (*anthreas* Wlk., *nemorum* auct., not Fab.). Ithaca, Je–Jl.

X. flavifrons Wlk. Adirondacks, Jl, *Fbs* (Snn).

X. fraudulosa Lw. (*baton* Wlk.). Ithaca; McLean; Freeville; Lakeside Park, Ap–Sep; Hudson R. Val., Ap–Je; W. Nyack (Beq); Nyack (Schott); **LI:** Flushing.

X. libo Wlk. (*marginalis* Will.). Axton, Je.

X. neobscura Snn. L. Tear, *Fbs.*

X. pigra Fab. Ithaca, May; Pelham Pk., Sep (Bs); **LI,** Ap.

X. plesia Curr. Mt. Whiteface, Jl, *Ald* (Snn).

X. subfasciata Lw. Essex Co, Jl–Aug.

X. vecora O.S. Old Forge; Mt. Marcy, Je–Jl; Ithaca; Caroline; Ft. Montgomery, Je (MCV).

BRACHYPALPUS Macquart

B. frontosus Lw. Keene Val., Je; Ithaca, Ap–May; Trenton Falls; **SI** (Ds); **LI:** Massapequa; Yaphank (Not); Farmingdale.

B. rileyi Will. Caroline, May; **SI,** Mar–May (Bs).

CRIORHINA Meigen

C. verbosa Wlk. Keene Val., May; Caroline, May; Ithaca; Hartsdale, Ap; Ramapo, Mar, on willow catkins, *Ds* (Beq); **SI:** Ap, on willow catkins (Bs); Richmond, Mar, *Ds* (Beq); **LI:** Wyandanch (Schott).

CYNORRHINA Williston

(*Blera* Billberg)

C. analis Macq. Keene Val.; Ithaca; McLean; Poughkeepsie, May–Je; Ft. Montgomery, Southfields (Schott); **SI,** Je (Bs); **LI:** Yaphank (Ols); Sea Cliff.

C. badia Wlk. (*intersistens* Wlk.). Axton; Adirondacks; foot of Cliff Mt.; Ithaca, Je–Jl; Caroline; Ringwood, Je; Danby (Emerson); Trenton Falls; Oliverea; Pine I.; **SI,** May (Bs); **LI:** Yaphank.

C. confusa Jn. Axton; Mt. Marcy; Old Forge, Je–Jl; foot of Cliff Mt.

C. nigra Will. Keene Val., May–Jl; L. Tear.

C. pictipes Bigot. **SI; LI:** Yaphank (Eng).

C. umbratilis Will. **LI:** Yaphank.

SOMULA Macquart

S. decora Macq. Fairly abundant. Lewiston, Je (MCV); Niagara Falls, May–Je; Erie Co, Je (MCV); Portage, Je, *Ds*; Ithaca; Hudson R. Val.; Ft. Montgomery, May, *Ds* (Jn, Schott); Pine I. (Schott); Ramapo, Je, *Ds*; **SI:** May–Je, common on Spiraea blossoms (Bs); Clove Val., Je, *Ds*; **LI:** Wading R., May, *Ds* (Jn, Schott); Huntington (Schott).

MILESIA Latreille

M. virginiensis Dru. Ithaca, Jl, Sep; Ft. Montgomery (Schott); **SI:** Jl–Sep (Bs); Eltingville, Sep, *Ds*; Richmond, Oct, Clove Val., Sep, *Ds*; **LI:** Wading R., Sep (Bs); Pinelawn, Aug, *Ds*; Wyandanch, Flushing (Schott); Yaphank, Jl, *Ds*.

SPILOMYIA Meigen

S. fusca Lw. Adirondacks, Aug–Sep; L. Pleasant, Aug, *Love*; Erie Co, Je–Aug (MCV); Ithaca; McLean; Oliverea; E. Jewett, South L., Catskills, Aug, *Ds*; Ft. Montgomery (Schott).

S. hamifera Lw. Manlius; Niagara Falls, Je–Jl; Ithaca; Poughkeepsie; Ft. Montgomery (Schott); **SI:** Jl (Bs); St. George, Jl, *Ds*; **LI:** Flatbush; Kings Pk., Jl (Bell); Pennequid Barrens.

S. longicornis Lw. Erie Co, Aug–Sep (MCV); Ithaca, Jl–Sep; Ft. Montgomery (Schott); **SI,** Aug (Bs); **LI:** Sands Pt., Sep (Bs); Gardiners I.; Rockaway Beach (Schott).

S. quadrifasciata Say. Elizabethtown; Essex Co, Jl–Sep; Manlius; Erie Co, Aug–Sep (MCV); Otto, Jl–Sep; Ithaca; McLean, Aug; Oliverea; **SI,** Sep (Bs); **LI:** Flushing.

SPHECOMYIA Latreille

S. vittata Wied. Axton, Je; Ithaca, Je, Aug; Karner; Ft. Montgomery (Schott); **SI,** Ap (Bs).

TEMNOSTOMA St. Fargeau et Serville

T. aequale Lw. Mt. Whiteface, summit, Jl, *Ds* (Beq); Essex Co, Je–Jl; Old Forge, Je–Jl; Upper Ausable L.; Mt. Skylight; L. Tear; Oliverea.

T. alternans Lw. Axton; Keene Val., May–Jl; Adirondacks, May–Je; Mt. Skylight; Cranberry L. (Drk); Boston, Aug (MCV); Ithaca; Albany; Pine I. (Ds); **LI:** Flushing.

T. bombylans Fab. Adirondacks, May–Je; Ithaca and vic.; McLean; Trenton Falls; Poughkeepsie.

T. excentricum Harr. Keene Val. (Not); Old Forge, Je–Jl; Boston, Aug (MCV); Ithaca, Je; McLean.

T. obscurum Lw. L. Tear, Mt. Skylight (Beq).

T. pictulum Will. Rochester (MCV).

T. venustum Will. Essex Co, Jl.

TENTHREDOMYIA Shannon

(*Ceriodes* auct. not Rondani)

T. abbreviata Lw. (*proxima* Curr.). Lancaster, Je (MCV); Ithaca, Je; Taughannock Falls, Jl; Karner.

CERIODES Rondani

C. signifera Lw. (*willistoni* Kahl). Rochester, Je–Jl; Ithaca, Je; Albany.

FAMILY CONOPIDAE

CONOPS Linnaeus

C. brachyrhynchus Macq.[100a] Tompkins Co (Will); Karner, Jl; Poughkeepsie, Je (Yg); **LI:** Orient (Beq).

C. fulvipennis Macq. **LI:** Manhattan Beach (Beq).

C. gracilis Will. Beaver Kill, Aug (CnJr).

C. sylvosus Will. **SI,** *Bs* (Beq).

C. xanthopareus Will.[100a] **LI:** Hempstead, Jl (Snn); Manhattan Beach (Beq).

PHYSOCEPHALA Schiner

P. affinis Will. Newport, Jl (Yg).

P. furcillata Will. New Russia, Aug (Snn); Wilmington, Jl, *Ds* (Jn); Adirondacks, Aug, *Ndm*; Ithaca, Jl (Joh); Oliverea (Beq); Beaver Kill, Aug (CnJr-ANSP).

P. marginata Say. "NY".

P. sagittaria Say. Norton's Landing, Cayuga L. (Will); L. George, Aug, *Zab* (AM); New Baltimore, Aug, Nyack, Aug (AM); Rye, with *Papaipema impecuniosa*, perhaps as a parasite, Sep 21 (Bird).

P. tibialis Say. Ithaca, Jl (Joh); Albany, Sep (Yg); Mosholu (AM); **SI:** (Beq); Ft. Wadsworth, Jl, *Bs*; **LI:** Wading R., Jl, Sep, *Bs*, Jl 27, *Ds* (Jn); Cold Sp. Harb., Jl (Snn), Sept, *Bs*; Sands Pt., Jl, *Bs*; Farmingdale, Je, *Bs*; Kings Pk., Jl, *Bs*; Manhattan Beach, Flushing, Wyandanch, Orient, Jamaica, Coram (Beq); Yaphank, Jl, *Ds* (CnJr-ANSP).

ZODION Latreille

Z. abdominale Say. **LI:** Cold Sp. Harb., Jl, on *Rhus glabra* (Snn).

Z. fulvifrons Say. Adirondacks, Je, Aug; Erie Co, May–Aug (MCV); Tompkins Co, Je–Aug (Joh); White Plains (Beq); **SI:** Moravian Cemetery, May, *Bs*; New Brighton, Je, *Bs*; Richmond, Aug, *Bs*; **LI:** Sands Pt., *Bs*; Wading R., Sep, *Bs*; Newtown Hgts., Je (AM); Huntington, *Schott* (Beq); Orient (Beq).

Z. intermedium Bks. Oliverea (Beq); **LI:** Central Pk., Sep, *Ds* (CnJr-ANSP); Flushing, Cold Sp. Harb. (Beq).

Z. nanellum Lw. Erie Co, May–Aug, *MCV*; Little Valley, Je, *MCV*; **LI:** Little Neck (Snn).

Z. perlongum Coq. **LI:** Gardiners I. (Beq).

STYLOGASTER Macquart

S. biannulata Say. Wilmington, Aug (Snn); Grand I., Aug, *MCV*; Ithaca, Aug (Snn).

S. neglecta Will. Niagara Falls, Jl; Springville, Jl, *MCV*; Canandaigua L. (Felt); Rhinebeck, Jl (Joh); **LI:** Cold Sp. Harb., Jl (Snn).

[100a] See Curran (Can. Ent., vol. 59, p. 32) on synonymy of *brachyrhynchus* and *xanthopareus*.

DALMANNIA Robineau-Desvoidy

D. nigriceps Lw. Norton's Landing, Cayuga L., *Comstock* (Will); Spencer, Je (Snn); Karner, Je (Yg).

THECOPHORA Rondani

(*Occemyia* Robineau-Desvoidy; *Oncomyia* Loew)

T. abbreviata Lw. Keene Val. (Beq); Bolton (Jn); Rochester, Sep; Olcott, Jl, *MCV*; Erie Co, Jl–Sep (MCV); Perry, *SHEmerson* (Beq); Ithaca, Jl–Aug (Joh); Salem, Aug (Yg); Albany, Aug.

T. baroni Will. Hamburg, Sep (MCV); Lewiston, Je (MCV).

T. loraria Lw. Johnstown, Aug; Erie Co, Je–Sep, *MCV*; Erie Co, Je–Sep, *MCV*; Ithaca, May–Aug (Joh); Oliverea (Beq); **SI:** Kreischerville, Jl, *Bs*; **LI:** Wading R., Sep, *Bs*; Cold Sp. Harb., Aug, *Bs* (Beq).

T. modesta Will. Perry, Aug (Snn); Ithaca, Je–Aug (Snn); **LI:** Cold Sp. Harb. (Beq).

T. modesta var. **melanopoda** Will. Rochester, Jl (Joh); Freeville, Aug (MacG).

MYOPA Fabricius

M. clausa Lw. Rock City, Je; Ithaca, Je (Joh); **LI:** Wading R., May, *Schott* (Beq); Wyandanch, *Schott* (Beq).

M. pilosa Will. Colden, May, *MCV*.

M. vesiculosa Say. Niagara Falls, May–Je; Erie Co, Je–Jl, *MCV*; Ithaca, May (Snn); Tompkins Co (Will, Joh); Karner, May (Yg); Poughkeepsie, Je (Yg).

M. vicaria Wlk. Ithaca, Ap–May (Joh, Snn); Karner, Ap (Yg); Albany, May.

M. virginica Bks. Ithaca, Je–Jl; Tompkins Co, Je (Snn); Hartford, Je; W. Nyack (Beq); Ft. Montgomery, *Schott* (Beq); **LI:** Cold Sp. Harb., Jl, on *Rhus glabra* (Snn).

FAMILY PYRGOTIDAE

PYRGOTA Wiedemann

P. chagnoni Jn. Elizabeth, Je; Colden, May (Jn); Ithaca (Joh); White Plains, May; **LI:** Huntington, May.

P. undata Wied. Fulton Co; Conesus L., Je (Ds); Ithaca, May–Je (Joh); Richfield, Je (AM); White Plains, *Bno* (Beq); Nyack, Aug, *Zab* (AM); W. Nyack, *Ols* (Beq); Mosholu, May (Ds); Bronx, NY Bot. Gardens, May (Ds); **SI,** Je (Ds); **LI:** Parkville (AM); Long Beach, Rockaway Beach, *Schott* (Beq).

P. valida Harr. Newport, May; E. Aurora, May (MCV); Ithaca, May (Comstock); Pearl River, May 11, *Wat*; **SI,** Je (Ds); **LI:** Rockaway Beach, Je (Ds); Wading River, Je (Ds); Maspeth, Je (Ols).

FAMILY ŒSTRIDAE

Compiled by Jos. BEQUAERT

ŒSTRUS Linnaeus

Œ. ovis L. THE SHEEP BOTFLY. Byron; Ballston Spa, Jl 19, Yg (NYS).

CEPHENOMYIA Latreille

C. phobifer Clark (*abdominalis* Ald.). Mt. McIntyre, summit, Jl, *Leon* (Beq); Mt. Whiteface, *Ds* (Ald); Mt. Skylight, Jl, 4800–4900 ft. (Beq); Mt. Seward, Je (Joh); Wilmington, Sep 14 (Felt), Sep 9, *Asa Lawrence* (NYS).

HYPODERMA Clark

H. bovis L. Recorded from the following counties: St. Lawrence; Warren; Hamilton; Herkimer; Lewis; Jefferson; Oneida; Onondaga; Genesee; Erie; Livingston; Cattaraugus; Ontario; Yates; Schuyler; Tompkins; Tioga; Cortland; Broome; Chenango; Otsego; Greene; Columbia; Orange; Westchester. This and *H. lineata* are widely distributed in the State almost wherever cattle occur, and are often very troublesome. Many localities in each of the counties listed have been recorded, chiefly by Mr. Wells and Mr. Brundrett through the courtesy of F.C.Bishopp of the U. S. Bur. Ent., as the result of extended survey in the State.

H. lineata De Vill. Recorded from the following counties: Clinton; Warren; Herkimer; Lewis; Jefferson; Onondaga; Monroe; Genesee; Erie; Allegany; Schuyler; Tioga; Cortland; Broome; Otsego; Delaware; Albany; Washington; Greene; Columbia; Sullivan; Orange.

FAMILY CUTEREBRIDAE

Compiled by Jos. BEQUAERT

CUTEREBRA Clark

C. cuniculi Clark (*horripilum* Clark). Albany, Nov, larva from rabbit (Bish); Ithaca, Je 28, Jl 4, *Philip Miller* (Joh); **SI:** Clove Val., Je, *Ang* (Ds); **LI:** Sands Pt., Jl (Bs).

BOGERIA Austen

B. buccata Fab. **SI:** Tottenville, Je (Ds).

B. emasculator Fitch (*Cuterebra scutellaris* Brauer). "NY", type locality; Ithaca (Joh).

B. fontinella Clark. Chilson L., Jl, *Wat* (Swenk); Lakeview, Aug; Schoharie, Sep (Lint); Oliverea, Jl (Swenk), neotype; Pine I., *CWPollard* (Jn).

FAMILY PHASIIDAE [101]

Compiled by L. S. WEST

CISTOGASTER Macquart

(*Gymnoclytia* Brauer and Bergenstamm)

C. immaculata Macq. Axton; Keene Val.; Wells; Speculator; Johnstown; N. Fair Haven; Cattaraugus; Canandaigua; Manlius; Hemlock L.; Ithaca; McLean; Spencer L.; Ringwood; Owego; Freeville; Albany; Albany Co; Nor-

[101] The lists for the families Phasiidae, Tachinidae, Megaprosopidae, and Dexiidae, as well as for the subfamilies Amobiinae and Miltogramminae of the Sarcophagidae, have been prepared by Dr. L. S. West. He has seen the great majority of the material on which these lists are based, and, in general, assumes authority for all records unless otherwise credited. In order to facilitate comparison, the grouping has been made to follow that of Johnson's *"List of the Diptera of New England,"* but this does not necessarily indicate Dr. West's views on the relationships of these groups.

manskill, Albany; L. Tackawasick; Debruce; Unionville; Rhinebeck; Oliverea (Ald); **SI**: Ft. Wadsworth; Moravian Cemetery; Richmond; New Dorp (Ald); Watchogue (Ald); **LI**: Riverhead; Long Beach, *Bs*. May–Aug.

C. occidua Wlk. Niagara Falls, Je; Lewiston, Je (MCV); Erie Co, Je–Sep (MCV); White Plains (Beq); **LI**: Hempstead, Huntington, Jamaica (Beq).

GYMNOSOMA Meigen

G. dubia West. Ithaca; Lake Ridge; Spring Lake, Cayuga Co; Spencer L.; Trenton Falls. Je–Sep.

G. fuliginosa Desv. Keene Val.; Axton; Old Forge; Saranac L.; Chapel Pond; Fulton Co; Lowville; Rochester Jct.; Erie Co (MCV); Hemlock L.; Spencer L.; Ithaca; Freeville; McLean; Oliverea (Beq). Je–Oct.

PHASIA Latreille

(Including *Alophora* Desv., *Hyalomyia* Desv., *Phorantha* Rond., *Paraphasia* Towns., etc.)

P. aeneoventris Will. Peru, Je; Keene Val., Aug; Chazy L., Je–Jl; Rochester, Sep–Oct (MCV); Erie Co, Je–Aug (MCV); Ithaca, May, *Snn*; Sep, *Mat*; Ringwood, Oct, *Leon*; Owego, Jl, *West*; Onteora Mt., Jl, *How* (Ald & Greene).

P. brevineura West. Ithaca, Jl, Sep; McLean, Aug–Sep, *Sib*.

P. cara West. (?)Ithaca, Jl; Karner, Oct–Nov.

P. fenestrata Big. Ithaca, May, *Snn* (Beq); Caroline, May, *And*; Owego, May, *West*; Albany, May; **SI**: Oakwood, *Bs* (Ald).

P. fumosa Coq. Elma, Aug (MCV); Ithaca; McLean, Sep, *West*; Albany.

P. furva West. McLean, Aug–Sep, *Sib*.

P. magnipennis Jn. Caroline, *And* (Beq); Karner, May.

?**P. nigrens** Wulp. Ithaca (probably a misidentification; the specimen is lost).

P. nitida Coq. McLean, Jl, *Sib*; Ithaca, May–Je; Owego, Jl, *West*; Poughkeepsie, Jl.

P. opaca Coq. Ithaca, Je–Sep.

P. phasioides Coq. Keene Val., Aug.

P. pulverea Coq. Coy Glen, Ithaca, Aug; Ithaca, Jl–Aug, *JMStedman*; **SI**, Jl, *Bs* (Ald).

P. splendida Coq. Keene Val., Aug; Oliverea (MCV).

P. subopaca Coq. Erie Co, Je, Oct (MCV); Ithaca, Jl.

PHORANTHELLA Townsend

P. occidentis Wlk. Honeoye Falls, Jl (Leon), from *Miris dolabratus*.

EUPHORANTHA Townsend

E. diversa Coq. Oswego; McLean, Sep, *Sib*; Karner, Oct.

TRICHOPODA Latreille

T. cilipes Wied. Yonkers, Je, *Ang.*

T. pennipes Fab. Irondequoit; Ithaca, Jl; Athens, Jl, *Bs*; Yonkers, Jl; **SI:** Clove Val., Je–Jl, *Ds* (Jn); **LI:** Riverhead, Jl, *Huck*; Baiting Hollow, Jl, Oct, *Huck;* Cold Sp. Harb. (Beq).

T. radiata Lw. "NY".

FAMILY TACHINIDAE

Compiled by L. S. WEST

MYIOPHASIA Brauer and Bergenstamm

M. metallica Towns. (*aenea* auct.). Keene Val., Jl; Old Forge, Jl; Hemlock L., Aug; Ithaca, Jl; **SI** (Beq); **LI:** Baiting Hollow, Aug–Sep, *Huck*; Riverhead, Sep.

MAUROMYIA Coquillett

M. pulla Coq. Keene Val., Jl.

EMPHANOPTERYX Townsend

E. eumyothyroides Town. Ithaca (Curr).

E. menapis Wlk. Mt. McIntyre, Adirondacks, Je; Ithaca, May; Victory Mills, May; Rensselaer, May; Thomson, May; Thacher Pk., Albany Co, May; Corinth, Je; Albany, May; Poughkeepsie, May; **LI:** Gardiners, E. Hampton, May; Montauk, May; Baiting Hollow, Je, *Huck.*

E. prisca Wlk. (*Cryptomeigenia theutis* auct., in part.). N. Evans, May (MCV); Lancaster, Je (MCV); Ithaca and vic., May; McLean, Je; Ringwood, Je, *West*; Albany, May; Thacher Pk., May; Rensselaer, May; E. Jewett, Ap, *Ds*; **SI,** Ap–May; **LI:** Baiting Hollow, Ap–May, *Huck.*

EULASIONA Townsend

E. catskillensis West. E. Jewett, *Ds.*

E. comstockii Towns. Mt. McIntyre; near Saranac L.; Woodville, L. Ontario; Ithaca; Ringwood; **LI:** Southampton, *Huck.* Je–Jl.

E. neglecta West. Ithaca, Je.

OCYPTEROSOMA Townsend

O. polita Coq. Oswego, Jl; Spring Lake, Cayuga Co.

EUHYPERECTEINA Townsend

E. nasoni Coq. **LI:** Baiting Hollow, Je, Aug, *Huck.*

SCHIZOTACHINA Walker

S. convecta Wlk. Karner, Sep.

CLAUSICELLA Rondani

?C. usitata Coq. Ithaca, *Dobroscky.* According to Johnson, this species is synonymous with *Schizotachina convecta* Wlk. Those specimens to which I have referred here are certainly distinct; hence the query. (West.)

PHYLACTEROPODA Townsend

P. tarsalis Coq. Ithaca, Jl (Walton, as *Clausicella*).

PLECTOPS Coquillett

P. melissopodis Coq. Ithaca, Je.

NEAERA Robineau-Desvoidy

N. longicornis Coq. Oswego, Aug, *Sheldon.*

LISPIDEA Coquillett

L. palpiger Coq. Keene Val., Aug.

THRYPTOCERA Macquart

T. americana Towns. Ithaca, Je (Walton, as *Polychaetoneura elyii*).
T. flavipes Coq. Rock City, Je; Ithaca, May–Je.

ACTIA Robineau-Desvoidy

A. palloris Coq. Long L., Aug; Ithaca, Je; **LI**, Aug.
A. pilipennis Fall. (i.e., *pilipennis* auct.; more than one form is most certainly included here). Ithaca, May–Je, Aug; McLean, Sep, *Sib*; Owego, Jl, *West*; Albany, Je; Amenia, Aug; **SI**: Watchogue, Aug (Ald).

ACTIOPSIS Townsend

A. autumnalis Towns. McLean, Aug, *Sib.*

DICHAETONEURA Johnson

D. leucoptera Jn. Keene Val., Jl; Ithaca, Je–Jl, *West*; Owego, Aug, *BeatriceRWest*; Bainbridge, Jl; Albany, Jl; Rensselaer, Jl; Nassau, Sep; **SI**, Jl, *Ds* (Ald).

CHAETOPHLEPS Coquillett

C. setosa Coq. **LI**: Baiting Hollow, Je–Jl, *Huck*; Selden, Jl, *Huck.*

CELATORIA Coquillett

C. spinosa Coq. Thompson L., Aug; **SI** (Beq).

ADMONTIOPSIS Townsend

A. tarsalis Coq. Ithaca, Je.

EUADMONTIA Townsend

E. pergandei Coq. Hamburg, Sep; Clinton Corners, Sep; Coy Glen, Ithaca, Sep; McLean, May, Sep.

XENADMONTIA Townsend

X. degeerioides Coq. Batavia, Je; Ithaca, Jl, Sep; McLean, Jl; Ringwood, Jl; Spring Lake, Cayuga Co, Jl; **SI**, Aug, *Ds*; **LI**: Baiting Hollow, Je, *Huck*.

HYPERECTEINA Schiner

H. aestivalis West. McLean, Jl.
H. bishopi West. Clyde, Jl, *Bish*; Ringwood, Je, *Leon*; **LI**: Baiting Hollow, Oct, *Huck*.
H. consternata West. **LI**: Baiting Hollow, Jl, *Huck*.
H. duospinosa West. **LI**: Baiting Hollow, Aug, *Huck*.
H. extricata West. Albany, Aug.
?**H. retiniae** Coq. **LI**: Riverhead, Sep.
H. setigera Coq. Van Cort. Pk., Je, *Ds*.

LIXOPHAGA Townsend

L. variabilis Coq. (*Hypostena variabilis* Coq.). Elizabethtown, Aug; Ithaca, May–Sep; L. Ridge, Jl; McLean, Sep, *Sib*; **LI**: Baiting Hollow, Aug, *Huck*.

HYPOSTENA Meigen

?**H. gilvipes** Coq. Ithaca.

METHYPOSTENA Townsend

M. barbata Coq. Axton, Je; Lowville, Jl, *West*; Thompson L., Aug; Duck L., Conquest, Aug, *Snn*; Ithaca, Jl; Coy Glen, May; Owego, May, *West*; McLean, Je–Jl, *West*; Ringwood, Jl, *West*; **LI**: Cold Sp. Harb. (Beq).

OEDEMATOCERA Townsend

O. flaveola Coq. Ithaca, Jl; Shelving Rock, L. George, Sep, *Leon*; **LI**: Jamaica, Je, *Yg*; Selden, Jl, Baiting Hollow, Sep, *Huck*.

TACHINOPHYTO Townsend

?**T. maculosa** Coq. Hague, Aug; McLean, Sep, *Sib*.
T. tortricis Coq. **LI**: Baiting Hollow, May, *Huck*.

DIDYMA Van der Wulp

D. setifacies West. Ithaca, Ap, *West*; Albany, Ap–May, *Yg*.

PSEUDENANTHA Townsend

P. coquilletti Ald. Ithaca; **LI**: Baiting Hollow, Jl, *Huck*; Southampton, Jl, *Huck*; Selden, Jl, Long Pond, Wading R., Je, *Huck*.
P. pristis Wlk. Mt. Marcy, 5300 ft. (Beq); Wells, Aug, *Yg*; Colden, Jl; Ithaca and vic., May–Je; **SI**, Jl, *Bs* (Ald); **LI**: Baiting Hollow, Jl–Sep, *Huck*; Selden, Jl–Aug, Wading R., Aug, Southampton, Jl, Riverhead, Je, Aug, *Huck*.

POLIDEA Macquart

P. areos Wlk. Alexandria Bay, Sep; Erie Co, May–Sep (MCV); Cattaraugus, Sep; Ithaca and vic., May–Sep; Ringwood, Je; McLean, Aug–Sep, *Sib*; Taughannock Falls, May; Albany, May; Kenwood, May, *Yg*.

CHAETOPHLEPSIS Townsend

C. tarsalis Towns. (*Hypochaeta endryae* Sm.). Oswego, Je (HESmith).

APINOPS Coquillett

A. atra Coq. Wilmington, 1000–2200 ft., Aug; Ithaca, Je, *West*.

GENEA Rondani

G. analis Say. Keene Val., Aug; Long L., Aug; Woodhull L.; Niagara Falls, Jl (MCV); Little Valley, Jl (MCV); Ithaca, Jl–Aug; Rensselaer, Ap.

G. texensis Towns. Ithaca, NYC (Ald).

MYOBIOPSIS Townsend

M. similis Towns. **SI,** *Bs* (Ald).

LESKIOMIMA Brauer and Bergenstamm

L. tenera Wied. Keene Val., Aug; Saranac Inn, Aug; L. Placid, Aug; Ithaca, Je; **LI:** Wading R., Sep (Bs Coll.); ?Sands Pt., Aug (Bs Coll.).

LESKIOPALPUS Townsend

L. depilis Coq. Ithaca, Aug.

PARADIONAEA Townsend

P. atra Towns. Rochester Jct., Jl, *Leon*; Hamburg, Je, Buffalo, Oct (MCV); Ithaca, Jl–Aug; Mud Cr., Tompkins Co, Je; **LI:** Baiting Hollow, Jl–Aug, *Huck*.

P. senilis Towns. "NY", *Comstock* (Towns); **LI:** Baiting Hollow, Jl, *Huck*.

HYALOMYODES Townsend

H. triangulifera Lw. Speculator, Aug; Keene Val., Aug; Rock City, Je; Ithaca and vic., May, Jl, Sep–Oct; Michigan Swamp, Jl; Ringwood, Oct, *Leon* (Ald); Spencer L., Je; McLean, May, Jl, Sep, *Leon, Sib*; Caroline to Harford, Je; Corinth, May; Owego, Jl, *West*; **LI:** Wading R., Sep, *Bs* (Ald); Pennequid Barrens (Beq).

ORMIA Robineau-Desvoidy

O. calva Coq. Karner, Aug; NY, Aug.

O. clausa B. & B. Karner, May; **LI:** Selden, May, *Huck*.

O. signifera Wulp. **LI:** Central Pk. (Beq).

CLISTOMORPHA Townsend

C. hyalomoides Towns. "NY", *Comstock* (Towns).

EUTRIXA Coquillett

E. exile Coq. (*masuria* Coq. not Wlk.). Ithaca, Je–Jl; Saratoga Sps., May, *FTHartman*.

XANTHOMELANODES Townsend

X. arcuata Say. **LI**: Riverhead, Jl, *Huck*.

X. flavipes Coq. **LI**: Baiting Hollow, Aug, *Huck*.

HEMYDA Robineau-Desvoidy

H. aurata Desv. Saranac L., Jl; Sodus Pt., *Not* (Beq); E. Aurora, Je (MCV); Ithaca, May, Sep; Poughkeepsie, Aug; **LI**: Flatbush, *Eng* (Beq); Riverhead. Aug, *Huck*; Baiting Hollow, Aug, *Huck*.

SIPHOPHYTO Townsend

S. floridensis Towns. Ringwood, Je; McLean, Aug; **SI** (Bs Coll.).

EPIGRIMYIA Townsend

E. polita Towns. Rochester Jct., Jl, *Leon*.

E. geniculata Towns. Essex Co, Aug.

E. setigera Coq. Keene Val., Aug; Saranac Inn, Aug; Long L., Aug; Ithaca, Jl.

SIPHONA Meigen

S. geniculata DeG. Keene Val., Aug, *Diven*; Wells, Aug, *Yg*; L. Placid, Aug; Elm L., Aug; Dug Mt., Aug, *Yg*; Colden, May (MCV); Mix Cr. Val., Cattaraugus Co, Je; Little Valley, May (MCV); Ithaca, May–Je; McLean, May; W. Nyack, Jl, *Bs* (Ald); **SI**, *Bs* (Ald); **LI**: Sands Pt., *Bs* (Ald); Baiting Hollow, Je, *Huck*.

GINGLYMYIA Townsend

G. acrirostris Towns. E. Aurora, Aug (MCV); Ithaca and vic., Aug–Sep, *JTLloyd* (Joh).

METAPLAGIA Coquillett

M. orientalis Towns. L. Charlotte, Je (Ald).

PLAGIPROSPHERYSA Townsend

?**P. parvipalpis** Wulp. Speculator, Aug, *Yg*.

BLEPHARIGENA Rondani

B. spinulosa Big. Ithaca; Hamburg, Je (MCV).

CYRTOPHLOEBA Rondani

C. coquilletti Ald. (*horrida* Giglio-Tos not Coq.). Ilion, May, *Yg*; Ithaca and vic., Ap–May, Aug; Ringwood, Je, *West*; McLean, May; L. George, Sep; **LI:** Yaphank, May, *Huck*; Baiting Hollow, May, *Huck*.

VORIA Robineau-Desvoidy

V. ruralis Meig. (*americana* Wulp). Near Mt. McIntyre, Jl, *West*; Deansboro, Je, *West*; Chapel Pond, Je; Ontario Beach, Aug, *West*; Ithaca, Aug; McLean, Jl, *West*; Slaterville, Jl, *West*; Owego, Jl, *West*; Albany, Aug; Poughkeepsie, Je, *Yg*; Wappingers Falls, Je, *Leon*; **LI:** Baiting Hollow, Jl–Aug, *Huck*.

STENOPLEURA Aldrich

(*Siphoplagia* Townsend)

S. anomala Towns. **LI:** Baiting Hollow, Sep, *Huck*; Cold Sp. Harb., Sep (Bs Coll.), also (Beq).

S. latifrons Ald. (*rigidirostris* Wulp). Saranac L., Sep, *Ds* (Ald); Ithaca, Jl, *West*; Owego, Jl, *West* (Ald); **LI:** Baiting Hollow, Sep, *Huck*.

S. similis Towns. **LI:** Baiting Hollow, Sep–Oct, *Huck*.

PSEUDOTRACTOCERA Townsend

P. lachnosternae Towns. **SI:** Ft. Wadsworth, Sep, *Bs* (Ald).

VIVIANIA Rondani

?V. georgiae B. & B. Near Saranac L., Jl, *West*.

BELVOSIA Robineau-Desvoidy

B. bifasciata Fab. Buffalo, Jl (MCV); Ithaca, Je; near Albany, Je; Croton, Jl, *Ds* (Ald); Pine I., *Ds* (Ald); **SI,** Je (Bs Coll.), also *Ds* (West); **LI:** Yaphank, *Eng* (Beq); Baiting Hollow, Sep, *Huck*.

TRIACHORA Townsend

T. unifasciata Desv. Ithaca, Je–Jl; McLean, May, *Ds*; Taughannock Falls, Jl; Michigan Swamp, Jl; Owego, Jl, *West*; Albany, Jl, Nov; Ghent, Nov; W. Nyack, Jl (Beq); Pine I., Je, *Ds*; **SI,** Je–Oct (Bs); **LI:** Baiting Hollow, Sep, *Huck*; Wading R., Je, *Ds*; Flushing (Beq).

MELANOPHRYS Williston

M. insolita Wlk. Axton, Je (M&H); Rock City, May–Je; Spencer, Je.

APHRIA Robineau-Desvoidy

A. ocypterata Towns. Ithaca, Aug, Oct, *West*; McLean, May, Jl, *Leon*; **LI:** Central Pk. (Beq); Farmingdale, Je, *Bs* (Ald), *Morrow* (West); Baiting Hollow, Je, *Huck*.

CYLINDROMYIA Meigen

C. carolinae Desv. A doubtful species, to which there are many references.

C. decora Ald. Ithaca (Ald).

C. dosiades Wlk. Keene Val., Aug, *Diven*; Saranac L., Jl; Erie Co, Je–Jl (MCV); North Cr., Aug; White Plains (Beq).

C. euchenor Wlk. Ithaca; Union Sps. (Ald).

LINNAEMYIA Robineau-Desvoidy

L. haemorrhoidalis Fall. Keene Val., Jl–Aug; Freeville, Jl.

BONNETIA Robineau-Desvoidy

B. comta Fall. Keene Val., *Ang*; Wells, Jl; Rochester Jct., Jl, *Leon*; Niagara Falls, Jl (MCV); Buffalo, Oct (MCV); Walton, Sep; Ithaca, Jl; McLean, Jl–Aug; Owego, Jl–Aug; **LI:** Baiting Hollow, Jl–Oct, *Huck*.

PYRAUSTOMYIA Townsend

P. penitalis Coq. **SI** (Beq).

ERNESTIA Robineau-Desvoidy

E. ampelus Wlk. Foot of Mt. Redfield, Essex Co (Beq); Ithaca, Jl; Owego, Jl, *West* (Curran); Big Ind. Val. (Beq); Oliverea, Sep, *Ds* (Ald); **LI:** Baiting Hollow, May, *Huck*. There are numerous records, from all parts of the State, for *Panzeria radicum* auct. A majority of these, upon verification, will probably be found to be referable to *E. ampelus* Wlk. (West.)

E. arcuata Tothill. Ithaca, May, Ringwood, May, *West* (Curran).

E. flavicornis Brauer. Wells, Jl, *Yg* (Curran).

E. platycarina Tothill. Mt. Marcy trail, Jl, *Fbs* (Curran); Big Moose, Aug (Curran); Old Forge, Jl (Curran); Wells, Jl, *Yg* (Curran); Karner, May (Curran).

METAPHYTO Coquillett

M. genalis Coq. Potsdam, Sep.

MACROMEIGENIA Brauer and Bergenstamm

M. chrysoprocta Wied. Lancaster (MCV); S. Wales, Gowanda, Jl–Aug (MCV).

CHRYSOTACHINA Brauer and Bergenstamm

C. alcedo Lw. Niagara Falls, Je; Ithaca, Je; Ringwood, Je, *West*; **SI** (Bs); **LI:** Jamaica, Je, *Yg*; Baiting Hollow, Jl, *Huck*; Selden, Jl–Aug, *Huck*; Wading R., Aug, *Huck*.

C. ruficornis Will. Sport I., Sacandaga R., *Alex*.

LYPHA Robineau-Desvoidy

L. dubia Fall. Ithaca, *Snn* (Beq).

NEMORILLA Rondani

N. insolens Ald. & Webb. Albany, Je.

N. maculosa Meig. (*Exorista pyste* Wlk. of Coq.). Rochester, Sep; Lockport, Je; Bainbridge, Jl; Ithaca, May, Jl–Aug; McLean, Sep, *Sib*, *West*; Ringwood, Jl; Owego, Jl–Aug, *West*; Albany, Je–Jl; **LI**: Baiting Hollow, Sep, *Huck*.

ZENILLIA Robineau-Desvoidy

(Subgenus ZENILLIA Robineau-Desvoidy

Z. amplexa Coq. Ithaca, Jl (Mues & Leon); Poughkeepsie, Je–Jl; **SI**: Ft. Wadsworth, Jl–Aug, *Bs* (Ald); **LI**: Baiting Hollow, Jl, Sep, *Huck*.

Z. eudryae Towns. Axton, Je, *M&H*; Ithaca, Aug.

Z. formosa Ald. & Webb. Poughkeepsie, Aug; **SI**, Jl, *Ds*; **LI**: Baiting Hollow, Jl, Sep, *Huck*; Wading R., Aug, *Huck*; Selden, Aug, *Huck*.

Z. helvina Coq. Big Moose, Aug, *FTHartman*; Ithaca, Jl, Sep; Albany, Je–Jl; Oliverea (Beq); **SI**: Ft. Wadsworth, Je, *Bs* (Ald); **LI**: Jamaica, Je.

Z. inflatipalpis Ald. & Webb. Ringwood, Jl.

Z. reclinata Ald. & Webb. McLean, Sep, *Sib*; Ringwood, Je, *West*.

(Subgenus PHRYXE Robineau-Desvoidy)

Z. caesar Ald. Mt. Whiteface, 2000–4000 ft., Aug; Rochester, Jl; Niagara Falls, Je; Ithaca and vic., May, Aug–Sep; McLean, Sep, *Sib*; Owego, Jl, *West*; Hoversville, Je, *Leon*; Albany, Je; **LI**: Riverhead, Jl, *Huck*.

Z. crassiseta Ald. & Webb. Ithaca, Aug; McLean, Sep, *Sib*; Owego, Aug, *West*.

Z. vulgaris Fall. Saranac Inn, Aug; Wells, Jl-Aug, *Yg*; Honeoye Falls, Jl; Ithaca, Je–Jl; Taughannock Falls, May; McLean, Sep, *Sib*; Owego, Jl, *West* (Ald).

(Subgenus PAREXORISTA Brauer and Bergenstamm)

Z. affinis Fall. McLean, Jl, Sep, *Sib*; **LI**: Long Pond, Wading R., Je, *Huck* (identification doubtful).

Z. confinis Fall. N. Fair Haven, Jl, *West*; Niagara Falls, Oct (MCV); Ithaca, Jl–Aug; McLean, Sep, *Sib*; Ringwood, Jl; Slaterville, Aug, *West*; Owego, May, Jl, *West*; Lake Ridge, Jl; Poughkeepsie, May; Middletown, Jl, *Spooner*; **SI**: Clove Val., Aug, *Bs* (Ald); **LI**: Baiting Hollow, Aug, *Huck*.

(Subgenus EUSISYROPA Townsend)

Z. blanda O.S. E. Aurora, Jl (MCV); Boston, Jl (MCV); Ithaca, Je–Aug; McLean, Jl–Sep, *West*; **SI**, Sep, *Ds* (West), *Bs* (Ald).

Z. blandita Coq. McLean, Jl, *West* (Ald).

Z. futilis O.S. Niagara Falls, Je; Thompson, May; Ithaca and vic., Je–Aug, reared by C. L. Liu, from *Malacosoma americana*; Olean, Jl, *West*; Malloryville, Je; Caroline to Harford, Je; McLean, Jl, *West*, Sep, *Sib*; Ringwood, May, *Leon*; L. Tackawasick, Je; Spencer L., Je; Michigan Hollow, Jl; **LI**: Brooklyn, *Eng* (Beq); Flatbush (Beq).

PHOROCERA Robineau-Desvoidy

(Subgenus PHOROCERA Robineau-Desvoidy)

P. assimilis Fall. **LI:** West Hills, Ap, *Ds* (Ald). Probably an old determination of *slossonae*.

P. slossonae Towns. Ithaca, Ap, *Diven*, May; **LI:** West Hills, Ap, *Ds*.

(Subgenus PARASETIGENA Brauer and Bergenstamm)

P. claripennis Macq. Niagara Falls, Je; Canandaigua, Jl; Ithaca, Sep; Oakwood, Je, *Ds*, *Bs* (Ald); Owego, Jl, *West*; Karner, Aug; White Plains, *Bno* (Beq); **SI** (Beq).

P. einaris Sm. **SI**, Aug (Bs); **LI:** Wading R. (Bs).

P. imitator Ald. & Webb. **LI:** Baiting Hollow, Aug, *Huck*.

(Subgenus PATELLOA Townsend)

P. leucaniae Coq. McLean, Jl, *West* (Ald); Oliverea (Beq).

?**P. silvatica** Ald. & Webb. Ithaca, May; Albany, May.

EUPELECOTHECA Townsend

E. celer Towns. Niagara Falls, Je; Ithaca (Walt, as *rufilabris* Wulp); **SI** (Bs); **LI:** Pennequid Barrens (Beq).

EXORISTOIDES Coquillett

E. slossonae Coq. (*Exorista spinipennis* Coq.). Slaterville, Aug, *West*; **SI**, *Bs* (Ald); **LI:** Baiting Hollow, Aug, *Huck*.

HOMALACTIA Townsend

H. harringtoni Coq. Ithaca, May (Joh).

DORYPHOROPHAGA Townsend

D. aberrans Towns. **LI:** Baiting Hollow, Je–Sep, *Huck*; Wading R., Sep, *Bs* (Ald).

D. dorsalis Coq. **SI**, *Bs* (Ald).

D. doryphorae Rly. Buffalo, Sep, Hamburg, Oct (MCV); **LI:** Wading R., Sep, *Bs* (Ald); Baiting Hollow, Sep, *Huck*.

FRONTINA Meigen

F. aletiae Riley. Canandaigua L., Aug; NYC (Beq); **SI**, Sep (Bs); **LI:** Southampton, Jl, *Huck*; Baiting Hollow, Aug, Wading R., Aug, *Huck*.

F. ancilla Wlk. **LI:** Sands Pt., *Bs* (Ald).

F. archippivora Will. Ithaca, Je–Jl, reared by C.L.Liu from *Malacosoma americana* (Ald).

F. dubia Wlk. **LI:** Baiting Hollow, Jl, *Huck*.

F. frenchii Will. Wells, Jl, *Yg*; Ithaca, Je–Aug; Slingerlands, Je; Albany, Feb, Ap; Kingston, Mar; **SI**, Sep (Bs Coll.); **LI**: Fishers I., Feb; Westbury, Je; Baiting Hollow, Jl–Sep, *Huck*; Wading R., Aug, *Huck*.

?**F. spectabilis** Ald. **LI**: Wading R., Aug, *Huck*.

F. violenta Wlk. **LI**: Baiting Hollow, Jl–Sep, *Huck*; Wading R., Aug, *Huck*.

MYRSINA Robineau-Desvoidy

M. tenthredinidarum Towns. (*Masicera exilis* auct.). Ithaca, Jl; Owego, Jl, *West* (Ald).

EUMASICERA Townsend

E. sternalis Coq. Boston, Aug (MCV); Ithaca (Will); **SI**: Richmond, Jl, *Bs* (Ald).

STURMIA Robineau-Desvoidy

S. fraudulenta Wulp. **SI** (Beq).

S. nigrita Towns. Ithaca, Jl.

S. phyciodis Coq. Ithaca, Jl, *West* (Ald).

PHRYNOLYDELLA Townsend

P. eufitchiae Towns. Hamburg, Je (MCV); Ringwood, Jl (Ald).

PARAPHOROCERA Brauer and Bergenstamm

P. myoidaea Desv. (*Andrina radicis* Towns.). Rye, Aug, *Bird*.

MASICERA Meigen

(*Ceromasia* Rondani)

M. albifacies Towns. Niagara Falls, Sep (MCV, as *albifrons* Towns., sic!); Ithaca, Aug.

M. arator Ald. Ithaca, Jl, reared by C.L.Liu from *Malacosoma americana*.

M. celer Coq. **LI**: Wading R., Aug.

M. senilis Meig. Rye, *Bird* (Beq); **LI**: Sands Pt., Je (Bs); Long Beach (Beq).

LYDELLA Robineau-Desvoidy

L. lathami Curran. **LI**: Greenport.

PARACHAETA Coquillett

P. fusca Towns. (*bicolor* of Coq. not Macq.; *inermis* of Coq. not Big.). Ithaca, Jl, *West* (Ald); NYC (Coq).

BLEPHARIPEZA Macquart

B. adusta Lw. Erie Co, Je–Aug (MCV); Ithaca; Freeville, Jl; Onteora Mt., *How* (Ald&Greene); Ramapo, *Ds* (Ald); Mooers, Sep, *Not* (Lutz).

B. leucophrys Wied. Keene Val. (Beq); Wells, May, Jl, *Yg*; Paradox L., Jl, *Ds* (Ald); North Cr., Jl, *Fbs*; Ithaca, Ap–Aug; McLean, May–Sep; L. George, Sep, *Leon*; Karner, Ap; Schodack, Ap; Oliverea (Beq); Ramapo, Mar, *Ds* (Ald); **SI,** Mar–Sep, *Ds, Bs*; **LI:** Sands Pt., Sep (Bs Coll.); Wading R. (Bs Coll.); Baiting Hollow, May, Aug–Sep, *Huck.*

B. rufescens Towns. "NY". Probably not distinct from *adusta* Lw. (West).

WINTHEMIA Robineau-Desvoidy

W. fumiferanae Tothill. Rock City, Je; Ithaca, May–Jl; McLean, Jl; Ringwood, Je; Voorheesville, Aug, *Leon*; **LI:** Southampton, Jl, *Huck*; Wading R., Aug, *Huck.* Placed by characters in Tothill's key (1912). It is not certain that these are truly diagnostic. (West.)

W. quadripustulata Fab. (auct.; more than one species is probably involved here). In this sense *W. quadripustulata* is the most abundant of all our species of Tachinidae. I have before me several hundred specimens from all parts of the State. Dates of collection range from May to October, falling mostly in Jl–Sep. (West.)

PARADIDYMA Brauer and Bergenstamm

P. singularis Towns. McLean, Jl; Shelving Rock Mt., L. George, Sep; **SI,** Jl, Oct, *Bs* (Ald); **LI:** Sea Cliff (Bks).

METACHAETA Coquillett

M. atra Coq. (*helymus* Wlk. and auct.). L. Placid, Aug; Ithaca and vic., Ap–Jl; McLean, Aug, *Sib*; Owego, May, *West*; Slingerlands, Jl; Van. Cort. Pk., Jl; **LI:** Wading R., Sep (Bs Coll.).

ACEMYIA Robineau-Desvoidy

A. dentata Coq. Ithaca, May; McLean, May; Owego, May, *West*; Middleton, Jl; **LI:** Riverhead, Sep.

PSEUDOCHAETA Coquillett

P. argentifrons Coq. St. Huberts, Aug.

EUTHERA Loew

E. tentatrix Lw. "NY" (Lw); Gowanda, Je (MCV).

EXORISTA Meigen

(*Tachina* auct.)

E. larvarum L. (*Tachina mella* Wlk., *T. utilis* Towns.). Keene Val., Jl; Glens Falls, Je; Niagara Falls, Je–Jl; Alder Cr., Sep; Ithaca, Je–Aug, reared by C. L. Liu from *Malacosoma americana*; McLean, Aug, *Sib*; Albany, Jl; Hoversville, Je, *Leon*; Hudson R. Val.; White Plains (Beq); Southfields (Beq); **SI** (Bs Coll.); **LI:** Baiting Hollow, May–Sep, *Huck*; Wading R., Aug, *Huck*; Selden, Jl, *Huck.*

CHAETOTACHINA Brauer and Bergenstamm

C. simulans Meig. (*Tachina rustica* auct.). Axton, Je, *M&H*; Saranac L., Aug–Sep, *Ds* (Ald); Mt. Whiteface, 2000–4000 ft., Aug; Mt. McIntyre, Jl; Northampton, Je; Wells, Jl; Denmark, May; Rainbow L., Je; Deansboro, Je; Ithaca and vic., May–Aug; McLean, Jl, Sep; Owego, Jl–Aug, *West*; L. Tackawasick, Je; W. Nyack, Jl (Bs); Oliverea, Je, *Ds*; White Plains (Beq); **LI:** Flushing (Beq).

TACHINOMYIA Townsend

T. robusta Towns. Potsdam; Rock City, Je, *Ds*; Ithaca, Ap–May; Ringwood, Je, *West*; McLean, Ap, *Kngt*; Thacher Pk., Albany Co.; Karner, Ap–May; Clinton Hgts., Ap; E. Schodack, Ap; Poughkeepsie, May; Bronxville, Mar, *Ds* (Ald); West Pt., Je; **SI,** *Bs* (Ald); **LI:** Pennequid Barrens (Beq); Wyandanch (Beq); Baiting Hollow, May, *Huck*; Selden, Jl, *Huck*; Gardiners I.; East Hampton, May; Montauk, May; Riverhead, Je, *Huck*.

NEOFISCHERIA Townsend

N. flava Towns. **SI:** Watchogue, Sep (Bs).

PHORICHAETA Rondani

P. sequax Will. L. Placid, Aug, *MCV*; near Mt. McIntyre, Jl, *West*; Ithaca, May; McLean, May; Trenton Falls, Je.

P. vernata West (*Wagneria vernata* West). Ithaca, May–Je; **LI:** Baiting Hollow, May, *Huck*.

EUTRICHOGENA Townsend

E. setipennis Coq. Upper Ausable L. (Beq).

GONIA Meigen

G. aldrichi Toth. Karner, May (Curr); Oswego (Toth).

G. breviforceps Toth. Potsdam (Curr).

G. confusa Curr. Ithaca, Albany, Ap (Curr).

G. exul Will. "NY" (Will).

G. frontosa Say (*capitata* DeG. auct., in part). Wells, Ap; Black Br., Je, *Cy*, *Fbs*; Fulton Co; Colden (MCV); Hamburg, May (MCV); Ithaca, Ap–May; Ringwood, Je, *West*; Caroline to Harford, Je; Albany, Ap–May; Albany Co, May, *Leon*; Karner, May; Clinton Hgts., Ap; Thompson, May, *Leon*; Wappingers Falls, Je, *Leon*; W. Nyack (Bs Coll.); **SI,** Mar–May, *Bs*, *Ds*; **LI:** Baiting Hollow, Je, *Huck*; Flushing (Beq); Long Beach, Central Pk. (Beq). I have credited to *frontosa* the majority of manuscript records pertaining to *capitata* DeG. (West).

G. longipulvilli Toth. Ithaca, Ap (Curr).

G. sagax Towns. Honeoye Falls, May; Ithaca and vic., May; Albany, May; Thacher Pk., May.

G. sequax Will. Wells, Aug, *Yg* (Curr).

(Subgenus CNEPHALOGONIA Townsend)

G. distincta Sm. Ithaca, Ap; Owego, Jl, *West*; Karner, Ap; E. Schodack, Ap; **LI:** Baiting Hollow, Ap–May, *Huck*.

SPALLANZANIA Robineau-Desvoidy

S. hesperidarum Will. Wells, Jl–Aug, *Yg*; Keene Val., Aug; Ithaca, Jl; Karner, Jl; **SI**, Jl (Bs Coll.); **LI**: Riverhead, Je; Baiting Hollow, Sep, *Huck*.

S. obsoleta Towns. Niagara Falls, Je (Towns).

EUGAEDIOPSIS Townsend

E. ocellaris Coq. L. Placid, Aug; Ithaca, Je–Aug; McLean, Aug–Sep, *Sib*; Owego, Jl, *West*.

CHAETOGAEDIA Brauer and Bergenstamm

C. analis Wulp. Newcomb, Jl; Ithaca, Jl–Sep; McLean, Aug–Sep, *Sib*; Owego, Jl, *West*; Albany, Sep; Watervliet Reservoir, Aug, *Leon*; Nassau, Sep; **LI**: Baiting Hollow, Sep, *Huck*.

DICHOCERA Williston

D. lyrata Will. Ithaca, Sep.

D. orientalis Coq. Juanita I., L. George, Sep, *Leon* (Ald).

TRICHOPHORA Macquart

T. ruficauda Wulp. Ithaca, Jl; Owego, Jl; Albany, Je–Aug; Poughkeepsie, Jl; Ft. Montgomery, *Schott* (Beq); **SI**, Je–Sep, *Bs* (Ald); **LI**: Cold Sp. Harb. (Beq).

CUPHOCERA Macquart

C. (*Trichophora*) **stricklandi** Curr. (possibly *C. furcata* Wulp and auct.). Poughkeepsie, Je (Curr); **LI**: Yaphank, Jl, *Ds* (Curr).

DEOPALPUS Townsend

D. hirsutus Towns. **LI**: Yaphank (Beq).

PELETERIA Robineau-Desvoidy [102]

P. anaxias Wlk. Axton, Je; near Saranac L., Jl, *West*; L. Placid, Aug; Newport, May, *Yg*; Old Forge, Jl; Erie Co, May, Sep, as *robusta* (MCV); Ithaca and vic., Jl–Oct; McLean, Je, Aug–Sep, *Sib*; Owego, Sep, *West*; Ballston L., Aug, *Leon*; Pearl Pt., L. George, Aug; Karner, May–Je; Rensselaer, May, *Leon*; Albany, May; Poughkeepsie, May; E. Jewett, Aug, *Ds*, as *robusta* (Ald); Oliverea, as *robusta* (Beq); **SI**, May, as *robusta* (Bs Coll.); **LI**: Baiting Hollow, Je–Sep, *Huck*; Sands Pt., Sep, as *robusta* (Bs Coll.); Cold Sp. Harb., Pennequid Barrens, as *robusta* (Beq). I have credited to *anaxias* all the manuscript records pertaining to *P. robusta* auct. Probably some should be referred to *confusa* Curr., but I am unable to decide which, not having seen Van Duzee's or Bequaert's material. (West.)

P. confusa Curr. Keene Val., Aug; Elizabethtown, Aug; Wells, Je, *Yg*; Adirondack Lodge, Jl, *Bish*; Saranac L., Sep, *Ds*; N. Fair Haven, Aug; Walton, Sep,

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[102] All Cornell material determined by C. H. Curran.

West; Ithaca, Jl–Sep; Ringwood, Jl, Oct; McLean, Jl–Sep, *Sib*; Owego, Aug, *West*; Pearl Pt., L. George, Aug, Shelving Rock, Sep, *Leon*; Karner, Oct; **SI,** Sep, *Ds*.

P. iterans Wlk. Axton, Je, *M&H*; Keene Val., Jl; Saranac Inn; Wells, Jl, Lowville, Jl, *West*; Long L., Aug; North Cr., Jl, *Fbs*; Mt. Skylight (Beq); Gloversville, Jl; Ground I., Sep (MCV); Hamburg, Oct (MCV); Cattaraugus, Sep; Ithaca, Aug; McLean, Jl–Sep; Mud Cr., Je; **LI:** Gardiners I. (Beq).

ARCHYTAS Jaennicke

A. analis Fab. (*amethystina* Macq. of Curran's determination). Wells, Jl–Aug, *Yg*; Long L., *Ds*; L. Pleasant, Jl; Niagara Falls, Je; Erie Co, Je–Sep (MCV); Cattaraugus, Sep; North Cr., Jl, *Fbs*; N. Fair Haven, Jl, *West*; Ithaca, Je–Sep; Lake Ridge, Aug; McLean, Jl–Sep; Owego, Jl, *West*; Michigan Hollow, Aug; Taughannock Falls, Jl; Watervliet Reservoir, Aug, *Leon*; Kinderhook, Sep; Ballston L., Aug; E. Jewett, Aug, *Ds*; Big Ind. Val., Oliverea (Beq); Onteora Mt., Sep, *How* (Ald&Greene); Poughkeepsie, Je; **SI,** Jl–Aug (Bs Coll.); **LI:** Wading R., Sep (Bs Coll.); Canarsie (Beq).

A. aterrima Desv. Piseco L., Aug; Erie Co, Jl–Sep (MCV); ?Ithaca, May; Pine I., Je, *Ds* (Ald); White Plains (Beq); NYC (Beq); **SI,** Je–Sep (Bs Coll.); **LI:** Farmingdale, Aug, *Ds* (Ald); Wading R., Sep, *Ds* (Ald).

A. hystrix Fab. Ithaca, Aug, *And* (Snn Coll.); **SI,** Je, Aug (Bs Coll.); **LI:** Flushing, Manhattan Beach, Orient (Beq).

A. lateralis Macq. Manlius; Ithaca, Aug.

FABRICIELLA Bezzi [103]

F. algens Wied. L. Tear (Beq); Long L., *Ds* (Ald); Mt. Marcy (Beq); Oswego; Old Forge, Jl; Speculator, Aug; Severance, Jl, *Bks*; Mt. Whiteface,, 2000–4000 ft., Aug; Olcott, Jl (Dt); Ithaca, Je–Aug; Big Ind. Val. (Beq); E. Jewett, Aug, *Ds* (West); Onteora Mt., Oct, *How* (Ald & Greene).

F. dakotensis Towns. Keene Val., Aug; McLean, Aug, *Sib* (West); Albany, Jl; **LI:** Farmingdale, Je, *Bs* (Ald); Baiting Hollow, Sep, *Huck*; Riverhead, Aug–Sep.

F. dakotensis var. **orientalis** Towns. (probably *Echinomyia florum* auct.). Axton, Je; L. Placid, Aug (Beq); Hamburg, Aug (MCV); Juanita I., Aug; Shelving Rock, L. George, Sep, *Leon*; Debruce, Sep, *Ds* (Dru); **LI:** Baiting Hollow, Je, Sep, *Huck*.

F. hispida Toth. Summit of Mt. McIntyre, Jl, *Bronson, Chrisp*.

F. montana Towns. L. Placid, Aug; Mt. Marcy, 5000 ft., Jl; Old Forge, Jl.

F. piceifrons Towns. Keene Val., *Not* (Beq).

EPALPUS Rondani

E. signiferus Wlk. Axton, Je, *M&H*; Old Forge, Je–Jl; Adirondack Lodge, Je; Labrador L., Cortland Co, Je; Bath, May; Gowanda, Je (MCV); Ithaca, Ap–Je; L. George, Jl; Karner, Ap; Albany, Je; Southfields, Je, *Bs* (Ald); E. Jewett, Ap, *Ds* (Ald); **LI:** West Hills, Ap, *Ds* (Ald); Huntington, Wyandanch (Beq); Baiting Hollow, Ap, *Huck*; Yaphank, May, *Ds*; Half Way Hollow Hills, May, *Ds* (Cress).

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[103] Cornell material determined by C. H. Curran.

BOMBYLIOPSIS Townsend

B. abrupta Wied. New Russia, Aug, *Bdy*; Big Moose, Aug, *Yg*; Gloversville, Je; N. Fair Haven, Aug; Niagara Falls, Sep (MCV); Erie Co, Je–Aug (MCV); Little Falls, Jl; Canandaigua L.; Ithaca, Je–Aug; McLean, Aug–Sep, *Sib*; Albany; Wappingers Falls; Oliverea, Sep, *Ds* (Ald); Onteora Mt., Aug, *How* (Ald & Greene); West Pt., Sep, *Ds*; **SI,** Je–Jl, Sep, *Ds*.

JURINIA Robineau-Desvoidy

J. decisa Wlk. (*Echinomyia decisa* auct.). Keene Val., Long L., Aug; Erie Co, Jl–Sep (MCV); Pike; Ft. Plain, Oct; McLean, Aug–Sep, *Sib*.

FAMILY MEGAPROSOPIDAE

Compiled by L. S. WEST

MICROPHTHALMA Macquart

M. disjuncta Wied. E. Aurora, Sep (MCV); Little Valley, Aug (MCV); Oliverea, Je, *Ds*; **SI,** Je–Jl, *Ds*; **LI:** Baiting Hollow, Je–Aug, *Huck*; Wading R., Aug, Selden, Jl, *Huck*; Wyandanch, Aug, Central Pk., Aug, *Ds*.

M. michiganensis Towns. (*M. phyllophagae* Curr. is probably a synonym.)

M. phyllophagae Curr. Keene Val., Jl–Aug; Saranac Inn, Aug; McLean, Aug, *Sib*.

FAMILY DEXIIDAE

Compiled by L. S. WEST

RHAMPHINA Macquart

R. leonardi West. Shelving Rock, L. George, Sep, *Leon*.

MOCHLOSOMA Brauer and Bergenstamm

M. valida B. & B. Keene Val., Jl.

RHYNCHODEXIA Bigot

R. confusa West. L. Placid; Keene Val.; Wells; Duck L., near Conquest; Ithaca; Freeville; McLean; L. George; Albany; Nassau; **LI:** Selden; Baiting Hollow; Riverhead; Fire I. Jl–Sep.

R. elevata West. **LI:** Riverhead, Aug, *Huck*.

R. translucipennis West. Ithaca, Jl, *West*; McLean, Jl, *West*.

PARAPROSENA Brauer and Bergenstamm

P. apicalis Desv. North Cr., Aug; Ithaca and vic., Jl–Aug. Reared from tabanid larva (Joh).

DEXIA Meigen

(*Zelia* Robineau-Desvoidy)

D. vertebrata Say. S. Wales, Jl (MCV); McLean, Jl, *VTPhillips*; **SI,** Jl, *Ds*; **LI:** Yaphank, Sep, *Ds*.

ATELOGLOSSA Coquillett

A. calyptrata West. **LI:** Selden, Aug.

A. glabra West. Wells, Jl, *Yg.*

PTILODEXIA Brauer and Bergenstamm

P. abdominalis Desv. **LI:** Wading R., Aug, *Ds* (Jn).

P. harpasa Wlk. Saranac Inn, Jl; Old Forge, Jl; Keene Val., Jl; Mt. Jo, Je, *West*; L. Tackawasick, Je, *Leon*; Van Cort. Pk. (Beq); **SI,** Je, *Ds*; **LI:** Cold Sp. Harb., Sep; Orient (Beq).

P. hucketti West. Albany, Aug, *Leon*; **LI:** Yaphank, Jl, *Ds*; Fire I., Sep, *Ds*; Riverhead, Jl–Aug, *Huck.*

P. incerta West. West Pt., Sep, *Ds*; **SI,** Je, *Ds*; **LI:** Riverhead, Je, Aug, *Huck*; Southampton, Jl, Wading R., Aug, *Huck.*

P. leucoptera West. **LI:** Riverhead, Sep, *Huck.*

P. minor West. North Cr., Aug; Duck L., near Conquest, Aug, *West.*

P. neotibialis West. Albany, Jl; West Pt., Sep, *Robn*; **LI:** Fire I., Sep, *Ds*; Riverhead, Jl, *Huck*, Sep; Selden, Aug–Sep, *Ds.*

P. obscura West. **LI:** Yaphank, Jl, Wading R., Je, *Ds.*

P. proxima West. **LI:** Riverhead, Aug, *Ds.*

MYIOCERA Robineau-Desvoidy

M. amicabilis West. Ithaca, Jl, *FCWixom.*

M. compacta West. Ringwood, Jl, *West.*

M. protrudens West. Ringwood, Jl, *Leon.*

PHASIOPS Coquillett

P. flava Coq. Caldwell (Coq); **SI,** *Ds.*

CHOLOMYIA Bigot

C. inaequipes Big. Ithaca, Jl (Joh); **LI:** Richmond Hill, Jl (Jn); Cold Sp. Harb., May.

SARDIOCERA Brauer and Bergenstamm

S. valida Wied. (*Theresia tandrec* Desv.). Ithaca, Jl; Kinderhook, Sep, *Bish*; Van Cort. Pk. (Bs); **SI,** Aug, *Bs, Ds*; **LI:** Yaphank, Jl, *Ds*; Montauk, Aug, Aqueduct, Jl, Wading R., Aug, *Ds*; Southampton, Jl, *Huck.*

THELAIRA Robineau-Desvoidy

T. nigripes Fab. (*leucozona* Panz.). Deansboro, Je, *West*; Naples, Jl; Erie Co, Je–Sep (MCV); Honeoye Falls, Je; Ithaca, Je–Aug; Coy Glen, Je; Taughannock Falls, Jl; McLean, Jl, Sep, *Sib*; Poughkeepsie, May–Je; **SI,** Aug, *Ds*; **LI:** Selden, Jl; Montauk, Aug, *Ds.*

EUTHERESIA Townsend

E. satisfacta West. **SI**, Aug, *Ds*.
E. sibleyi West. Mt. McIntyre, Je, Jl, *Leon, Bish, Sib*.

OPSODEXIA Townsend

O. bicolor Coq. Corinth, Je, *Yg*; Pearl Pt., L. George, Aug; Kaaterskill, Aug (Jn); **LI:** Cold Sp. Harb., Sep; Wading R., Riverhead, Aug, *Huck*.

CHAETONA Van der Wulp

C. addenda West. Renwick (Stewart) Pk., Ithaca, Aug, *West*.
C. americana Big. Ithaca (Will).
C. flavipennis Coq. Niagara Falls, Je (Jn).
C. ordinaria West. Near Mt. McIntyre, Jl, *West*.

ARCTOPHYTO Townsend

A. gillettei Towns. Gowanda, Aug, as *Paraphyto* (MCV).

SPATHIDEXIA Townsend

S. clemonsi Towns. Ithaca, Jl (Ald).
S. dunningi Coq. Potsdam, Jl; Ithaca, May; McLean, Je.

ESTHERIA Robineau-Desvoidy

E. tibialis Desv. Erie Co, Aug–Sep (MCV); **LI:** Fire I., Sep, *Ds* (Jn). I regard these records as rather uncertain, since *Ptilodexia harpasa* Wlk. and *Rhynchodexia confusa* West have both been confused with *E. tibialis* in the past. I do not doubt that the species occurs in the State, but I have not myself seen any NY specimens. (West.)

DINERA Robineau-Desvoidy

D. futilis West. Rochester, Je–Jl, *Leon*; Ithaca, Je, Aug, *Sargent*; Voorheesville, Je, *Leon*; **LI:** Baiting Hollow, Je–Aug, Wading R., Aug, *Huck*.

MELANOPHORA Meigen

M. roralis L. Rochester, Oct, Buffalo, Je–Jl (MCV); Niagara Falls, Je (Jn); Ithaca, Je–Jl, Sep–Oct; Albany, Je, Aug–Sep, *Yg*; **LI:** Southold, Sep, *Ds*; Baiting Hollow, Aug, Selden, Jl, *Huck*; Sea Cliff; Flatbush, Hempstead (Beq).

FAMILY SARCOPHAGIDAE

SUBFAMILY AMOBIINAE

Compiled by L. S. WEST

AMOBIA Robineau-Desvoidy

A. aurata Coq. Ithaca, Owego, Jl, *West*.
A. confundens Towns. Lancaster, May (MCV); Ithaca, Jl, *West* (Ald).

BRACHYCOMA Rondani

B. apicalis Coq. Black Mt., L. George, Sep (Ald).

OPPIOPSIS Townsend

O. sheldoni Coq. **SI,** Je, *Ds* (Ald).

SUBFAMILY MILTOGRAMMINAE

Compiled by L. S. WEST

METOPIA Meigen

M. campestris Fall. Axton; Lowville; Broadalbin; N. Fair Haven; Upper Ausable L. (Beq); Duck L., near Conquest; Ithaca; Slaterville; McLean; Ringwood; Trenton Falls; **LI:** Sands Pt. (Bs Coll.); Cold Sp. Harb. (Bs Coll.); Baiting Hollow. May–Sep.

M. lateralis Macq. Ithaca, Owego, Slaterville, Aug. *West*; **LI:** Wading R., Baiting Hollow, Aug, *Huck*.

M. leucocephala Rossi. Wells; Ausable R.; Broadalbin; Saranac L.; Axton; Upper Ausable L. (Beq); N. Fair Haven; Niagara Falls; Buffalo, Lancaster (MCV); Ithaca; Slaterville; McLean; Ringwood; Owego; Lake Ridge; Albany; Middletown; **SI; LI:** Pennequid Barrens (Beq); Wading R.; Baiting Hollow; Riverhead; Jamaica. May–Sep, mostly Jl–Aug.

M. tessellata Allen. Ithaca, Jl (Allen).

EUARABA Townsend

E. grisea Desv. N. Fair Haven, Jl, *West*; Ithaca, Je–Jl; Karner, Je; Rensselaer, May; **LI:** Baiting Hollow, May, Sep, *Huck*.

OPSIDIA Coquillett

O. gonioides Coq. **SI,** Je, Aug, *Ds*; **LI:** Long Beach (Beq); Selden, Aug, Riverhead, Jl, *Huck*.

PROSINELLA Robineau-Desvoidy

P. fulvicornis Coq. Near Saranac L., Jl, *West*; Batavia, Mar; Ft. Erie, Jl (MCV); Ithaca, Je–Aug; L. Tackawasick, Je; Owego, Aug; **SI,** Sep, *Bs* (Ald); **LI:** Riverhead, Je; Long Beach, Pennequid Barrens (Beq).

GYMNOPROSOPA Townsend

G. polita Towns. Ithaca, Aug; Middletown, Jl, *Spooner*; **SI,** Je, *Ds* (West), *Bs* (Ald).

HILARELLA Rondani

H. hilarella Zett. (*siphonina* Zett.). **LI:** Wading R., Aug, Baiting Hollow, Sep, *Huck*.

OESTROHILARELLA Townsend

O. aristalis Coq. Oswego (Allen).

PACHYOPHTHALMUS Brauer and Bergenstamm

P. distortus Allen. Ithaca, May, *Sun* (Allen).

P. floridensis Towns. **SI**, *Ds*; **LI**: Baiting Hollow, Je, Sep, *Huck*; Wading R., Sep, *Ds* (Beq).

P. signatus Meig. Speculator, Je, *Yg*; Niagara Falls, Je; Buffalo, Je (MCV); Ithaca, Jl–Aug, Owego, Jl, Ringwood, Je, *West*; Karner, Je; **SI**: New Dorp, Je, *Bs* (Ald); **LI**: Baiting Hollow, May–Sep, Wading R., Aug, *Huck*; Montauk, May; Gardiners I. (Beq).

SENOTAINIA Macquart

S. rufiventris Macq. L. Charlotte, Je; L. Tackawasick, Je; Rhinebeck, Jl, *Cy*; **SI**: Tottenville, Je, *Bs* (Ald); **LI**: Baiting Hollow, Je, *Huck*.

S. trilineata Wulp. Keene Val.; Mineola; Saranac L.; Ausable R., West Branch; N. Fair Haven; Duck L., near Conquest; Ithaca; Slaterville; Owego; Nassau; Poughkeepsie; W. Nyack (Bs Coll.); **SI**: Ft. Wadsworth, Watchogue, Arlington (Bs Coll.); **LI**: Gardiners I. (Beq); Sands Pt., Wading R. (Bs Coll.); Baiting Hollow, *Huck*. May–Aug; most abundant in Jl.

TAXIGRAMMA Perris

T. heteroneura Meig. (*nasoni* Coq.). Peru, Je.

SUBFAMILY SARCOPHAGINAE

WOHLFAHRTIA Brauer and Bergenstamm

W. vigil Wlk. Syracuse, *Blkm* (Hine); Rochester Jct., *Leon* (Ald); Ludlowville; Ithaca, Jl (Joh).

METOPOSARCOPHAGA Townsend

M. pachyprocta Park. (*larga* Ald.). **LI**: Oak I. (Ald); Sands Pt., Jl (Bs); Long Beach, Je, *Bs* (Ald).

CHAETORAVINIA Townsend

C. latesetosa Park. (*Sarcophaga*). Ithaca, Je (Park); **LI**: Cold Sp. Harb., Jl.

C. quadrisetosa Coq. Yonkers (Beq); **SI**: Clove Val., *Bs* (Ald).

HELICOBIA Coquillett

H. helicis Towns. Keene Val.; Buffalo, Jl; Syracuse, *Blkm* (Hine); Ithaca, May–Aug (Park); **LI**: Sea Cliff.

LACCHOPROSOPA Curran

L. avium Curr. Ithaca, Mar (Curr).

SARCOPHAGA Meigen

S. aldrichi Park. Axton, Je (Park); Mt. Whiteface, Jl 13, *Ds* (Jn).

S. assidua Wlk. L. Erie (Park); Lancaster, May; Hamburg, Oct (MCV); **SI**, Sep 15, *Ds* (Ald); Ft. Wadsworth, Je, *Bs* (Ald).

S. bisetosa Park. Ithaca, May–Sep (Park); Albany; White L., Sep, *Zab*; Greene Co.

S. bullata Park. Ithaca, Jl (Park); Nassau; Nyack; **SI:** Arrochar, Jl, *Bs* (Ald); **LI:** Cold Sp. Harb., Jl (Ald).

S. cimbicis Towns. Erie Co, May, Aug (MCV); Ithaca and vic. (Park); Albany; Carmel; W. Nyack (Beq); NYC; **SI:** Watchogue, Sep, *Bs* (Ald); Ft. Wadsworth, Oct, *Bs* (Ald).

S. cingarus Ald. Ithaca, Jl, Aug (Park); Greene Co (Ald).

S. cooleyi Ald. Ithaca, May, *Rly* (Bishopp).

S. communis Park. L. Tear (Beq); Potsdam; Unionport; Buffalo, May–Sep (Park); Ithaca and vic.; Mosholu; **SI:** New Brighton, May, *Bs* (Ald); Ft. Wadsworth, Je, Sep, *Bs* (Ald); **LI:** Flatbush; Sea Cliff; Cold Sp. Harb.; Gardiners I. (Beq); Wyandanch, *Eng* (Beq); Brooklyn (Beq).

S. dalmatina Schin. Buffalo, Oct (MCV); Albany (Park); NYC, Je; **LI:** Cold Sp. Harb.

S. dux exuberans Pand. Ithaca, Je (Park).

S. dux sarracenioides Ald. Axton, Je; Ithaca, Je, Jl (Park); NYC; **SI,** *Ds* (Beq); **LI:** Cold Sp. Harb.

S. falculata Pand. Ithaca, Aug, Sep (Park); Nyack.

S. fulvipes dissidia Park. Niagara Falls, *Jn* (Park).

S. haemorrhoidalis Fall. Potsdam; Buffalo, Lancaster, Aug (MCV); Ithaca, Je, Jl, Aug (Park); Albany (Jn); **SI:** Watchogue, Jl, *Bs* (Ald); Ft. Wadsworth, Sep, *Bs* (Ald); **LI:** Flatbush; Cold Sp. Harb., Je, Jl (Park); Sands Pt., Aug, *Bs* (Ald).

S. houghi Ald. Buffalo, Je (MCV); NYC (Ald).

S. hunteri Hough. **SI:** Ft. Wadsworth, Jl, *Bs* (Ald); New Dorp, *Bs* (Ald).

S. johnsoni Ald. W. Nyack (Beq); **LI:** Long Beach, Je, *Bs* (Ald).

S. latisterna Park. Grand I., Aug (MCV); Ithaca, May–Jl (Park); Karner; **SI:** Arrochar; Ft. Wadsworth, New Dorp, New Brighton, Watchogue, Richmond, May–Jl (Ald).

S. niagarana Park. Niagara Falls, Je 25 (Park).

S. parallela Ald. Inwood, Oct, pupa in dead *Helix thyroides, Ds* (Ald).

S. peniculata Park. L. Tear, Upper Ausable L. (Beq); Olcott, Jl; Erie Co, May–Sep (MCV); Ithaca and vic., Je, Jl (Park); **LI:** Cold Sp. Harb., Jl.

S. reversa Ald. Greene Co (Ald); **SI:** New Dorp, *Bs* (Ald); Ft. Wadsworth, Sep, *Bs&Ds* (Ald).

S. scoparia nearctica Park. Keene Val.; Hamburg, May (MCV); Cattaraugus, Je–Sep (Park); Ithaca; NYC, Sep, *Bs* (Ald); **SI:** Ft. Wadsworth, Sep, *Bs* (Ald); **LI:** Cold Sp. Harb.; Sea Cliff.

S. securifera Vill. Buffalo, Oct; Albany; NYC, *Sturt* (Ald, Beq); **SI:** New Brighton, Jl, *Bs* (Ald); **LI:** Cold Sp. Harb., Je; Flatbush, *Eng* (Beq).

S. sinuata Meig. Buffalo, Aug (MCV); Cattaraugus; Ithaca and vic., May–Sep (Park); White Plains (Beq); Kiamesha; Mosholu; **SI:** (Beq); Richmond, Je, *Bs* (Ald); Ft. Wadsworth, Oct, *Bs* (Ald).

S. spuria Curr. Ithaca, Mar (Curr).

S. utilis Ald. Cattaraugus; Ithaca, Je–Sep (Park); **LI:** Cold Sp. Harb.

S. yorkii Park. Niagara Falls.

FAMILY CALLIPHORIDAE

SUBFAMILY PHORMIINAE

COCHLIOMYIA Townsend

C. (*Compsomyia*) **macellaria** Fab. Buffalo, Oct, *MCV*; Cattaraugus, Sep; Ithaca, Jl (Joh); Albany, Sep; NYC (Beq); **SI** (Beq); **LI:** Riverhead, Flushing (Beq).

PROTOCALLIPHORA Hough

P. avium Snn. & Dobr. Ithaca, *Coutant* (Snn&Dobr).

P. splendida form **splendida** Macq. **SI:** Watchogue, *Bs* (Snn&Dobr).

P. splendida form **sialis** Snn. & Dobr. McLean, *Joh*; Caroline, *And*; Fall Cr., Ithaca (West); **LI:** Farmingdale, *Beq* (Snn&Dobr).

PHORMIA Robineau-Desvoidy

(*Euphormia* Townsend)

P. regina Meig. Essex Co, May–Je; Syracuse, Oct; Buffalo, MCV; Ithaca, Ap–Nov (Joh); Ramapo, May 31, *Ds* (Ald); White Plains (Beq); Albany; Nassau, Aug; **SI:** on dead goat, Oct 15, *Ds* (Ald); Ft. Wadsworth, Mar, *Bs* (Ald); Watchogue, Mar, *Bs* (Ald); **LI:** Long Beach (AM); Rockaway Beach; Promised Land, Sep, *Ds* (Ald).

PROTOPHORMIA Townsend

P. terrae-novae Desv. Potsdam; Ithaca, Jl (Joh); Clinton Hgts., Ap; N. Elba, Oct, *Wat* (Ald); Upper Ausable L. (Beq); Slide Mt., Je, *Ds* (Ald); Ft. Montgomery, *Schott* (Beq); **LI:** Aqueduct, *Schott*; Fire I., *Schott* (Beq).

SUBFAMILY CALLIPHORINAE

CYNOMYIA Robineau-Desvoidy

C. cadaverina Desv. Mt. Whiteface, Jl, *Ds* (Ald); Upper Ausable L. (Beq); Saratoga, Je; Syracuse, Oct (Bishopp); Buffalo, Oct, (*MCV*); Ithaca, Ap–May (Joh); Oliverea, Je, *Ds* (Ald); Albany, Je; **SI:** Ft. Wadsworth, Clove Val., etc., Mar–Oct, *Bs&Ds* (Ald); **LI:** Brooklyn, *Ds* (Ald); Flatbush, Flushing (Beq).

C. mortuorum L. L. Tear (Beq).

CALLIPHORA Robineau-Desvoidy

C. erythrocephala Meig. Essex Co, Aug; Niagara Falls, Je; Ithaca, May–Sep (Joh); Albany, Oct; Clinton Hgts., Ap–Je; NYC, Sep, *Bs* (Ald); **SI,** Jl–Aug, on dead goat, Oct 15, *Ds* (Ald); **LI:** Yaphank, Je, *Ds* (Ald).

C. viridescens Desv. Axton, Je; Ithaca, Jl (Joh); Schenectady, Aug; **SI:** Ft. Wadsworth, Mar, *Bs* (Ald).

C. vomitoria L. Mt. Marcy (Beq); Mt. Whiteface (Beq); Honeoye Falls, Je, *Leon*; Ithaca, May (Joh); Oliverea, Je 19, *Ds* (Ald); Slide Mt., Je 18, *Ds* (Ald); Albany, May; **SI:** on dead horse, *Ds* (Ald); Ft. Wadsworth, May, Oct, *Bs* (Ald).

C. vomitoria nigribarbis Snn. NY.

LUCILIA Robineau-Desvoidy

L. caesar L. Adirondacks, Je–Jl; Erie Co, May–Sep, *MCV*; Ithaca, May–Sep (Joh), *Zab* (AM); **SI:** on dead goat, Oct 15, *Ds* (Ald); Ft. Wadsworth, May, Sep, *Bs* (Ald); Richmond, Jl, *Bs* (Ald); **LI:** Riverhead, Wyandanch, Sep.

L. pilatei Hough. **SI:** Ft. Wadsworth, Aug, *Bs* (Ald).

L. sericata Meig. Niagara Falls, Je (Jn); Ithaca, May–Aug (Joh); Albany, Aug; **SI**, Oct 15, on dead goat, *Ds* (Ald); **LI:** Brooklyn (Beq); Rockaway Beach, Farmingdale, Je.

L. sylvarum Meig. Niagara Falls, Je (Jn); Ithaca, May–Jl (Jn).

SUBFAMILY POLLENIINAE

POLLENIA Robineau-Desvoidy

P. rudis Fab. Common and widely distributed, Jan–Dec.

FAMILY MUSCIDAE

SUBFAMILY STOMOXYIDINAE

STOMOXYS Geoffroy

S. calcitrans L. BITING HOUSE-FLY. Common and widely distributed throughout the State, Ap–Nov.

LYPEROSIA Rondani

(*Haematobia* auct.)

L. irritans L. (*serrata* R.-Desv.). HORN FLY. Generally distributed throughout the State; frequently a serious pest of cattle in the dairy sections.

SUBFAMILY MUSCINAE

MUSCA Linnaeus

M. domestica L. HOUSE FLY. Common and widely distributed, Ap–Dec.

CRYPTOLUCILIA Brauer and Bergenstamm

(*Pseudopyrellia* Girschner)

C. caesarion Meig. (*cornicina* auct. not Fab.). Debruce, Sep 14, *Ds* (Beq); Unionport (AM); Nyack, *Zab*; **SI**, Mar 20, *Ds* (Beq); **LI:** Flatbush, *Zab* (AM).

PYRELLIA Zetterstedt

P. cyanicolor Zett. Oliverea (Beq); Ft. Montgomery, *Schott* (Beq); Woodhull L., Aug; Ithaca, Feb–Sep (Joh); Fair Haven, Sep; Beaver Kill, Aug (CnJr); E. Jewett, Ap 18, *Ds* (Ald).

MESEMBRINA Meigen

M. latreille Desv. (*resplendens* auct. not Wahlb.). Oliverea, Je, *Ds* (Ald).

MORELLIA Desvoidy

M. micans Macq. L. Tear, Upper Ausable, Mt. Skylight (Beq); Lancaster, May–Je (MCV); Rochester Jct., Jl (Leon); Ithaca, Ap–Jl (Joh); Albany, May; Rensselaer, Mar; **SI:** Ft. Wadsworth, Sep, *Bs* (Ald).

GRAPHOMYIA Desvoidy

G. maculata Scop. Adirondacks, Jl–Aug; Tompkins Co (Joh); Mosholu (AM); NYC, Aug, *Bs* (Ald); **SI:** Arrochar, Sep, *Ds* (Ald); Kreischerville, Ft. Wadsworth, Sep, *Bs* (Ald); **LI:** Riverhead.

MUSCINA Desvoidy

M. assimilis Fall. Axton, Je (Joh); Rochester Jct., Je, *Leon*; Ithaca, Ap–Je (Joh); NYC, Aug, *Bs* (Ald).

M. stabulans Fall. STABLE FLY. Potsdam, Mar; Niagara Falls, Je (Jn); Erie Co, Je (MCV); Syracuse, *Blkm* (Hine); Ithaca, Ap–Nov (Joh); Albany, Jl; Rye, associate of *Papaipema purpurfascia* in decaying matter in burrows (Bird); Nyack; Ft. Montgomery, May, *Ds* (Ald); **SI:** Ft. Wadsworth, Je, *Bs* (Ald); **LI:** Cold Sp. Harb., Sep, *Bs* (Ald).

M. pascuorum L. Ithaca, Sep–Nov, 1922 (Joh); introduced from Europe.

MYIOSPILA Rondani

M. meditabunda Fab. Niagara Falls, Je (Jn); Erie Co, Aug–Oct (MCV); Tompkins Co, Ap–Sep (Joh); Albany, Je; Kenwood, Albany Co, Jl; Bryn Mawr Pk., Sep (AM); Pine I., Je, *Ds* (Ald); **SI:** Ft. Wadsworth, Je–Sep, *Bs* (Ald).

SUBFAMILY GASTEROPHILINAE

GASTEROPHILUS Leach

G. intestinalis DeG. (*equi* Clark). HORSE BOTFLY. Coopersville, Je; Otto, *Comstock*; Baldwinsville, *CPFitch* (Bishopp); Ithaca, *CPFitch* (Bishopp); Utica, Jl, *Wells* (Bishopp); Syracuse, Oct 6, eggs on horses (Bishopp); Cropseyville, Je (NYS Sep 15).

G. veterinus (*nasalis* L.). Utica, Jl, *Wells* (Bishopp); Ithaca, *CPFitch* (Bishopp).

FAMILY ANTHOMYIIDAE [104]

SUBFAMILY PHAONIINAE

PSEUDOPHAONIA Malloch

P. orichalcea Stein. Ithaca, May (Huck).

BIGOTOMYIA Malloch

B. houghi Stein. McLean Bogs, Jl (Huck); **LI,** Sep (Huck).

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[104] This list has been checked by Dr. H. C. Huckett. The arrangement of subfamilies and genera, and the synonymy, express his latest opinion of relationships, which differs somewhat from that of Johnson's *"List of the Diptera of New England."*

DENDROPHAONIA Malloch

D. hilariformis Stein. Ithaca, *Joh* (Stein).

D. querceti Bouché. Ithaca, Je, reared from a screech owl's nest, *Snn & Dobr* (Huck).

PHAONIA Robineau-Desvoidy

P. apicata Joh. Mt. Marcy (Beq); Ithaca, May–Sep, type; McLean, Jl–Sep, *Sib* (Joh).

P. apta Stein (*winnemanae* Mall.). Herkimer, Aug (Huck); Ithaca, Jl, *Joh* (Stein); McLean Bogs, Sep (Huck).

P. atlanis Mall. Peru, Je (Huck); **LI,** Aug–Sep (Huck).

P. azygos Mall. "NY" (Mall).

P. bysia Wlk. Adirondacks, Je–Sep, Ithaca, Je, **LI,** May–Sep (Huck).

P. curvipes Stein. McLean Bogs, Aug (Huck).

P. deleta Stein. Ithaca, Je (Ald); McLean, Aug, *Sib* (Joh).

P. diruta Stein. Ithaca, May–Aug (Joh).

P. errans Stein (*errans* Stein nec Meig.; *tinctipennis* Rond.?). Rock City, Je 5 (Joh); Ithaca, May 17 (Joh).

P. flavibasis Mall. Ithaca, May (Huck).

P. fusca Stein. Ithaca, May, **LI,** Aug (Huck).

P. harti Mall. Bryn Mawr Pk., Sep (Huck).

P. laticornis Mall. Adirondacks, Aug, **LI,** Ap–May (Huck).

P. morrisoni Mall. Adirondacks, Aug (Huck).

P. nigricans Joh. (*nervosa* Stein, *cayugae* Joh.). Ithaca, May–Aug (Joh); McLean, May, Aug, *Sib* (Joh).

P. pallicornis Stein. Greene Co, Aug, *How* (Huck).

P. pallidula Coq. **LI,** May (Huck).

P. prisca Stein. Ithaca, Jl, *Joh* (Stein).

P. protuberans Mall. Mt. Marcy, 5300 ft. (Beq), paratype.

P. pulvillata Stein. **LI,** Aug (Huck).

P. rufibasis Mall. **LI,** Ap (Huck).

P. serva Meig. Woodhull L., Aug (Jn); L. Tear (Beq); Honeoye Falls, May, *Leon*; Ithaca, Je (Joh); McLean, May, *Sib* (Joh).

P. soccata Wlk. Ithaca, May (Ald).

P. solitaria Stein. Ithaca, May (Stein).

P. subfusca Mall. Carmel, Aug (Huck).

P. tipulivora Mall. Adirondacks, Aug (Huck).

ALLOEOSTYLUS Schnabl and Dziedzicki

A. diaphanus Wied. (*Trichopticus signia* Wlk.). Axton, Je 21 (Joh); Cranberry Cr., Broadalbin, Je (NYS); Upper Ausable L. (Beq); N. Elba, 2000 ft., Jl (Ald); Erie Co, May–Sep (MCV); Little Valley, Jl (MCV); Ithaca, May 19; Catskills; Albany, Je (NYS); Ft. Montgomery, *Schott* (Beq); **LI:** St. Albans, Je.

TRICHOPTICUS Rondani

T. conformis Mall. Old Forge, Jl (NYS).
T. infestus Stein (*latipennis* Mall.). "NY" (Mall); Ithaca, *Joh* (Stein), as *Alloeostylus*.
T. innocuus Zett. Oliverea, Je 21, *Ds* (Ald); Upper Ausable L. (Beq).
T. johnsoni Mall. Adirondacks, Jl (Ald).
T. spiniger Stein. Mt. Marcy, 5300 ft. (Beq); L. Tear (Beq); Speculator (NYS).

DIALYTA Meigen

D. flavitibia Joh. Adirondacks, Aug 17, type; Upper Ausable L. (Beq); McLean, Jl, Sep, *Sib* (Joh).

POGONOMYIA Rondani

P. flavinervis Mall. (*nitens* Stein). Niagara Falls, Je (Jn); Lancaster, Je–Aug (MCV); Greene Co, *How* (Ald); Ithaca, Je 7 (Joh).

SUBFAMILY MYDAEINAE

MYDAEA Robineau-Desvoidy

M. brevipilosa Mall. Adirondacks, Jl; Ithaca, Je, **LI**, Ap–May (Huck).
M. discimana Mall. Adirondacks, Jl; Ithaca, May–Aug, **LI**, Je–Sep (Huck).
M. flavicornis Coq. "NY" (Coq).
M. flavidipalpis Mall. Ithaca, Je, **LI**, Jl–Sep (Huck).
M. neglecta Mall. Adirondacks, Jl, Ithaca, Je, **LI**, Ap–Sep (Huck).
M. obscura Stein not Wulp (*nubila* Stein). Ithaca, Je (Ald).
M. pagana Fab. Tompkins Co; Albany, Sep (NYS).
M. persimilis Mall. Albany, May (Huck).
M. tincta Zett. N. Fair Haven, Jl, Ithaca, Je (Huck).
M. urbana Meig. Erie Co, Je–Aug (MCV); Ithaca, May–Sep (Joh); McLean, May–Sep, *Sib* (Joh); Poughkeepsie (NYS); **LI**: Central Pk. (Beq).
M. winnemanna Mall. **LI**, Aug–Sep (Huck).

HELINA Robineau-Desvoidy

(*Spilogaster* Macquart, in part)

H. consimilata Mall. Ithaca, Jl (Huck).
H. duplicata Meig. Ithaca, Je (Joh); **LI**: Long Beach (Beq).
H. johnsoni Mall. **LI**, Je (Huck).
H. lysinoe Wlk. (*varia* Stein). Boston, Aug (MCV); Ithaca, May–Sep (Joh); McLean, May, Aug, *Sib* (Joh); Round I., Sep.
?H. nigripennis Zett. Lancaster, Aug (MCV).
H. obscurata Meig. (*nasoni* Mall.). Ithaca, Je–Jl (Huck).
H. obscurinervis Stein. Ithaca, May–Jl; **LI**, Jl–Sep (Huck).
H. obscuripes Zett. (*cothurnata* Rond.). Ithaca, Je (Joh).

H. pectinata Joh. (*biseriata* Stein, *mimetica* Mall.). Upper Ausable L. (Beq); Adirondacks, Jl (Huck); Ithaca, Je 11, type; McLean, Je–Jl, *Sib* (Joh).

H. procedens Wlk. (*uniseta* Stein). Elma, Aug 21 (MCV); Ithaca, Je–Aug (Joh).

H. rufitibia Stein. Ithaca (Joh); **SI,** Ap, *Ds* (Ald).

H. tinctipennis Stein. Ithaca (Stein).

H. uliginosa Fall. Ithaca, Mar (Joh); Albany, Sep, *Yg* (NYS).

SPILARIA Schnabl

S. lucorum Fall. Ithaca, Je (Joh); Jl (Huck); McLean, Je–Jl, Sep, *Sib* (Joh); Niverville, Aug (Jn); **LI,** Ap–Sep (Huck).

S. marmorata Zett. N. Fair Haven, Jl (Huck).

S. multisetosa Schnabl. Adirondacks, Jl–Sep.

HEBECNEMA Schnabl

H. affinis Mall. **LI,** Aug (Huck).

H. fumosa Meig. Essex Co, Je (Huck); **LI,** Jl–Aug (Huck).

H. umbratica Meig. Saranac Inn, Sep, *Ds* (Ald); Erie Co, Je–Aug (MCV); Tompkins Co, May–Aug (Joh); **SI,** Aug 17, *Ds* (Ald); Ft. Wadsworth, Mar, on Forsythia, *Bs* (Ald).

H. vespertina Fall. Ithaca, Aug (Huck); **LI,** May–Je (Huck).

SUBFAMILY HYDROTAEINAE

HYDROTAEA Robineau-Desvoidy

H. acuta Stein. Ithaca, Je, Jl (Huck).

H. armipes Fall. Ithaca, May (Huck); **SI:** Watchogue, Je, *Bs* (Ald); Richmond, *Bs* (Ald); **LI:** Farmingdale, Je, *Bs* (Ald).

H. comata Ald. Ithaca, May (Huck).

H. cristata Mall. Adirondacks, Jl (Ald).

H. houghi Mall. McLean, Aug, *Sib* (Joh); Oswego, Je (Coq).

H. metatarsata Stein. **SI:** Richmond, *Bs* (Ald).

H. meteorica Linn. **LI,** May (Huck).

H. militaris Meig. (*impexa* Lw.). Speculator (NYS); Rock City, Je; Tompkins Co, May–Aug (Joh).

H. nidicola Mall. Ithaca, Ap, *Dobr* (Mall).

H. occulta Meig. Ithaca, May, Sep (Joh).

H. orbitalis Ald. Ithaca, Je (Huck).

H. tuberculata Rond. Ithaca (Stein).

H. unispinosa Stein. Ithaca, May 29 (Joh); McLean, May–Jl, Sep, *Sib* (Joh).

OPHYRA Robineau-Desvoidy

O. aenescens Wied. **LI,** Jl (Huck).

O. leucostoma Wied. Saranac L., Sep, *Ds* (Ald); Severance (NYS); Manlius, *HHS*; Ithaca, May–Aug (Joh); McLean, Aug–Sep, *Sib* (Joh); Albany, Je; **LI:** Massapequa, Jl, *Bs* (Ald); Southold, Sep 6, *Ds* (Jn); Central Pk., Huntington, Orient (Beq).

SUBFAMILY FANNIINAE

FANNIA Robineau-Desvoidy

F. aerea Meig. Ithaca, Jl (Huck).

F. canicularis L. Axton, Je; Northville, Je, *Yg* (NYS); Buffalo (MCV); Tompkins Co, May–Aug (Joh); Albany, Mar; **SI,** *Ds* (Ald).

F. carbonaria Meig. (*corvina* Verr.). Tompkins Co, Je (Joh).

F. fuscula Fall. (*tetracantha* Lw.). Ithaca (Joh); **SI:** Watchogue, Je–Jl, Ft. Wadsworth, Aug, *Bs* (Ald); **LI:** Sands Pt., Je, *Bs* (Ald).

F. genualis Stein. "NY" (Stein).

F. glaucescens Zett. Ithaca, May–Jl (Huck); **LI,** May, Sep (Huck).

F. incisurata Zett. "NY" (Meade); N. Evans, Nov 14 (MCV).

F. kowarzi Verr. Albany, May (Huck).

F. laevis Stein. **LI,** Je.

F. latipalpis Stein. Ithaca, Je (Huck); **LI,** May (Huck).

F. manicata Meig. Ithaca, Sep (Stein); McLean, Aug, *Sib* (Joh).

F. minutipalpis Stein. Caroline to Harford, Je (Huck); Ithaca, Je; **LI,** May.

F. ochrogaster Thoms. Adirondacks, Jl (Ald).

F. pallidiventris Mall. McLean, Jl (Huck); **LI,** May (Huck).

F. parallela Joh. (*sociella* Zett.?). Wells, Je (NYS); Ithaca, Aug 30.

F. pellucida Stein. **LI:** Cold Sp. Harb., Sep (Huck).

F. postica Stein. "NY" (Stein); Adirondacks, Jl (Ald); Ithaca, Je (Huck).

F. pusio Wied. Ithaca, Jl (Huck).

F. serena Fall. Upper Ausable L., Speculator, Keene Val., Saranac Inn, Je–Aug (Huck–NYS); Tompkins Co, May–Je (Joh).

F. scalaris Fab. Niagara Falls, Je; Ithaca, Ap–Nov (Joh).

F. spathiophora Mall. Adirondacks, Jl (Ald).

COELOMYIA Haliday

C. subpellucens Hal. Mt. Marcy (Beq); L. Tear (Beq); Mt. Redfield (Beq).

PLATYCOENOSIA Strobl

P. mikii Strobl. **LI:** Pennequid Barrens (Beq).

AZELIA Robineau-Desvoidy

A. cilipes Hal. Adirondacks, Jl (Ald); Gloversville, *Alex*; Caroline, Je (Joh); Ithaca, Aug (Huck).

A. gibbera Meig. Ithaca, May (Huck).

A. triquetra Wied. Ithaca, Je (Huck).

SUBFAMILY LISPINAE

LISPA Latreille

L. albitarsis Stein. L. Tear (Beq); Erie Co, May–Jl (MCV); Tompkins Co, Aug (Joh); **SI,** Aug 18, *Ds* (Ald); **LI:** Sea Cliff (Joh); Brooklyn, Je 4, *Ds* (Ald).

L. nasoni Stein. Manlius, *HHS* (Joh); **LI:** Long Beach (Beq).

L. palposa Wlk. Erie Co, Je–Oct (MCV); Manlius, *HHS* (Joh); NYC, Je 15, *Ds* (Ald); **LI:** Long Beach (Beq).

L. sociabilis Lw. Ithaca, Jl–Sep (Joh).

L. tentaculata DeG. Erie Co, May–Aug (MCV); L. George, Sep, *Ndm* (Joh); Ithaca, Jl–Sep (Joh).

L. uliginosa Fall. L. Tear (Beq); Manlius, *HHS*; Buffalo, *MCV* (Ald); Ithaca, Aug (Joh); McLean, Aug, *Sib* (Joh).

SUBFAMILY LIMNOPHORINAE

LIMNOPHORA Robineau-Desvoidy

L. discreta Stein (*incrassata* Mall.). Ithaca, Aug–Sep (Joh); McLean, Jl–Aug, *Sib* (Joh).

L. narona Wlk. Erie Co, Je–Aug (MCV); Ithaca, Aug 9 (Joh); **LI:** Sands Pt., Je–Jl, *Bs* (Ald); Long Beach (Beq).

LISPOIDES Malloch

L. aequifrons Stein. Ithaca, Je–Sep (Joh); McLean, Sep, *Sib* (Joh).

SPILOGONA Schnabl and Dziedzicki

(*Melanochelia* Rondani)

S. acuticornis Mall. Ithaca, Jl (Huck).

S. (Gymnodia) arcuata Stein. **LI,** Aug (Huck).

S. alticola Mall. Adirondacks, Jl (Huck).

S. caroli Mall. Adirondacks, Jl (Huck).

S. magnipunctata Mall. Adirondacks, Jl (Huck).

S. monticola Mall. McLean, Sep, *Sib* (Joh).

S. parvimaculata Stein. Ithaca, *Joh* (Stein).

S. rufitibia Stein. **LI** (Huck).

S. surda Zett. Ithaca (Stein). (Cf. *acuticornis* Mall.)

S. tetrachaeta Mall. Ithaca (Huck).

S. torreyae Joh. Ithaca, May–Jl (Joh).

S. velutina Mall. (*nigrifrons* Stein). Caroline to Harford, Je (Huck); Tompkins Co, Ap (Stein), as *nigrifrons.*

TETRAMERINX Berg

T. unica Stein. **LI:** Sands Pt., *Bs* (Ald).

LISPOCEPHALA Pokorny

L. alma Meig. Ithaca, May, *Joh* (Stein).
L. erythrocera Desv. N. Evans (MCV); McLean, Jl–Sep, *Sib* (Joh).

PENTACRICIA Stein

P. aldrichi Stein. McLean, May (Joh).

LIMNOSPILA Schnabl

L. albifrons Zett. "NY".

PHYLLOGASTER Stein

P. cordyluroides Stein. Chatham, Aug; **LI**: Cold Sp. Harb., Aug–Sep, *Bs* (Ald).
P. littoralis Mall. N. Fair Haven, Jl (West); **LI**: Long Beach, Je, *Bs* (Ald).
P. nudiseta Stein. **LI**: Sands Pt., Je, *Bs* (Ald).
P. robusta John. **LI**: Je (Huck); Cold Sp. Harb., Sands Pt., Sep, *Bs* (Ald).

SUBFAMILY COENOSIINAE

MACRORCHIS Rondani

M. ausoba Wlk. (*Coenosia aurifrons* Stein). Alexandria Bay, Sep; Keene Val., Northampton, Broadalbin, Northville (NYS); Erie Co, May–Je, Aug, *MCV* (NYS); Tompkins Co, May–Sep (Joh); Albany, Corinth, Poughkeepsie, Je (NYS).

COENOSIA Meigen

C. antennalis Stein. **LI**, Jl (Beq).
C. basalis Stein. "NY."
C. canescens Stein. Tompkins Co, May–Aug (Stein). (See *lata* Wlk.)
C. compressa Stein. Wells, Jl, *Yg* (NYS).
C. errans Mall. **LI**, May (Huck).
C. flavicoxa Stein. Ithaca, Jl–Aug (Joh).
C. flavifrons Stein. McLean, Jl, Sep, *Sib* (Joh).
C. fuscifrons Mall. Sport I., Sacandaga R. (Alex).
C. geniculata Fallén. Axton, Je (MacG); Alexandria Bay; Tompkins Co, May–Aug (Joh).
C. humilis Meig. (*nana* Zett.). Ithaca, Mar–Sep (Joh); Lancaster, Mar, *MCV* (Ald); **LI**: Huntington, *Schott* (Beq).
C. hypopygialis Stein. E. Aurora, Aug (MCV); Peru, Je, Adirondacks, Aug (Huck).
C. lata Wlk. (?*canescens* Stein). Ithaca, Aug (Huck); Erie Co, Je–Oct (MCV); Greene Co, *How* (Ald); **SI** (Beq); **LI**: Long Beach (Beq).
C. modesta Lw. Ithaca, Aug (Joh); McLean, Aug, *Sib* (Joh).
C. nigrescens Stein. Ithaca, Jl, McLean, Aug (Huck).
C. nivea Lw. Tompkins Co, Je (Joh); Niagara Falls, Je (Jn).
C. nudiseta Stein. Little Valley, Aug; Erie Co, Je–Aug (MCV); **LI**: Long Beach (Beq).
C. ovata Stein. Ithaca, Jl; Otto (Joh).

C. rufitibia Stein (*tibialis* Stein). Ithaca, May (Joh); Vandalia, Je (Joh).
C. solita Wlk. Buffalo, Oct (MCV).
C. tigrina Fab. Speculator, *Yg* (NYS); **LI:** Valley Stream, Aug (Huck).

MACROCOENOSIA Malloch

M. triseta Stein. Upper Ausable L., Essex Co (Beq); McLean, Jl, Speculator, Jl (Huck).

XENOCOENOSIA Malloch

X. calopyga Lw. Buffalo, Je (MCV); Ithaca, *Joh* (Stein); **SI** (Beq); **LI:** Long Beach (Beq).
X. floridensis Mall. Ithaca, Jl, Poughkeepsie, Jl (Huck).
X. major Mall. **LI:** Cold Sp. Harb., Sep (Huck).

HOPLOGASTER Rondani

H. nigritarsis Stein. Upper Ausable L. (Beq); Speculator, Wells (NYS); W. Danby, *MacG* (Joh); Augur Flats, Jl, *Yg* (NYS); Dug Mt., Aug, *Yg* (NYS).

SCHOENOMYZA Haliday

S. chrysostoma Lw. Niagara Falls, Je, *MCV* (Jn); Tompkins Co, Je–Aug (Joh).
S. dorsalis Lw. (*litorella* Fall.?). Buffalo, Je (MCV); Colden, May (MCV); Greene Co, *How* (Ald); **LI:** Riverhead, Sep (Joh).
S. litorella Fall. **LI:** Gardiners I., Aug (Beq).

SUBFAMILY ANTHOMYIINAE

ANTHOMYIA Linnaeus

A. pluvialis L. (*amoena* Meig., *oculifera* Bigot). Upper Ausable L. (Beq); Hamburg, May (MCV); Ithaca, May–Sep (Joh); McLean, Aug, *Sib* (Joh); L. George, Ap, *Leon* (Huck); **LI:** Hempstead, Ap (Huck).

CALYTHEA Schnabl and Dziedzicki

C. separata Mall. Ithaca, May, Aug (Joh); McLean, Sep (Huck); Canandaigua L., Aug (Joh); **LI:** Hempstead, Ap, Jl (Huck).

ANTHOMYIELLA Malloch

A. pratincola Panz. Rochester Jct., Je, *Leon*; Ithaca, Jl (Joh); **LI:** Little Neck, Syosset, Riverhead, Je–Jl (Huck).

KINGIA Malloch

K. quintilis Mall. NYC (Beq).

EMMESOMYIA Malloch

E. apicalis Mall. **LI:** Cold Sp. Harb., Sep, Lakeville, Aug (Huck).

MACATEEIA Malloch

M. protuberans Mall. **LI:** Hempstead, Sep (Huck).

NEOHYLEMYIA Malloch

N. mallochii Huck. Ithaca, Aug, types; **LI:** Hempstead, Glen Head, Cold Sp. Harb., Aug–Sep (Huck).

HYDROPHORIA Robineau-Desvoidy

H. ambigua Fall. Ithaca, Je–Sep (Huck); McLean, Jl, *Sib* (Joh).

H. divisa Meig. Herkimer, Aug, *Leon* (Huck); Ithaca, May (Huck); McLean, Aug, *Sib* (Joh).

H. flavohalterata Mall. **SI:** Watchogue, Jl, *Leon* (Huck).

H. orientalis Huck. **LI:** Baiting Hollow, Aug, type (Huck).

H. ruralis Meig. Ithaca, *Joh* (Huck).

H. uniformis Mall. Ithaca, May (Huck); McLean, Sep, *Sib* (Joh); **SI:** Watchogue, *Bs* (Ald); **LI:** Cold Sp. Harb., Sep (Huck).

EUSTALOMYIA Kowarz

E. festiva Zett. Mt. Whiteface, 2000–4000 ft., Aug; N. Fair Haven, Aug (Joh); Ithaca, Je (Joh); McLean, Sep, *Sib* (Joh); Syracuse, *Blkm* (Hine).

E. vittipes Zett. Old Forge, First L., Adirondacks, Aug (Huck); Buffalo, Je, *MCV*; Lake Ridge, Aurora, Coy Glen, Ringwood, Ithaca, May–Je (Huck); **LI:** Syosset, Jl (Huck).

HAMMOMYIA Rondani

H. johnsoni Stein. Ithaca, May–Jl (Huck); Meadowdale, May, *Leon* (Huck).

H. maculata Stein. Ithaca (Huck).

H. marylandica Mall. **LI:** Baiting Hollow, May.

H. obtusa Zett. (*paludis* Joh.). Ithaca, Ap–Jl, type and paratype (Joh); **LI:** Glen Head, Ap (Huck).

H. unilineata Zett. Ithaca, Ap–May; Albany, May, *Yg* (Huck); Mosholu (Huck–AM); **SI** (Beq); **LI:** Glen Head, Valley Stream, Ap (Huck).

H. uniseriata Zett. Ithaca, Ap (Huck); **LI,** Je (Huck).

PROSALPIA Pokorny

P. angustitarsis Mall. L. George, Sep, *Leon* (Huck); Beaver Kill, Aug (*CnJr*).

P. silvestris Fall. Colden, Je (MCV); Oliverea, *Ds* (Beq); L. Tackawasick, Je, *Leon.*

EREMOMYIA Stein

E. humeralis Stein. Ithaca, Mar, *Bish,* May, *Snn* (Huck).

E. vernalis Huck. Ithaca, Mar–Jl, type (Huck).

EREMOMYOIDES Malloch

E. cylindrica Stein. Ithaca, Mar–Jl (Joh); Albany, Delmar, Thacher Pk., Karner, Mar–May (NYS); Valley Falls, *Yg* (NYS); Nyack, W. Nyack (Beq); **SI:** New Dorp, *Bs* (Ald).

E. fuscipes Mall. Ithaca, Ap (Huck); **SI:** Cooper Cemetery, Mar, *Bs* (Huck).

E. similis Mall. Ithaca, Mar–Ap, *Snn&West* (Huck).

HYLEMYIA Robineau-Desvoidy

(Including *Phorbia* Desvoidy and *Chortophila* Macquart)

H. albula Fall. N. Fair Haven, Jl, *West* (Huck); **LI:** Baiting Hollow, Sep (Huck); Cold Sp. Harb., Aug–Sep, *Beq&Bs* (Huck).

H. alcathoe Wlk. Adirondack Lodge, Keene, L. Placid, Speculator, Wells, Je–Jl (NYS); Upper Ausable L. (Beq); Buffalo, Je–Aug (MCV); Ithaca, Aug–Sep (Joh); McLean, Aug–Sep (Beq); **LI:** Lakeville, May (Huck).

H. antiqua Meig. (*Phorbia ceparum* Meig.). ONION MAGGOT. Speculator; Erie Co (Leon); Ogdensburg (NYS); Williamson, Aug, *Buys*; Rochester; Ithaca, McLean, May–Sep (Joh); Olean (Leon); Schenectady (NYS); Albany, Delmar, Kenwood (NYS); Durlandville, Jl, *FrostSW* (Huck). Generally distributed, and in some seasons a serious pest on onions.

H. arnolitra Huck. Ithaca, May (Huck); **LI:** Hempstead, Ap (Huck).

H. betarum Lint. (*substriata* Stein). Ithaca, Ap–Jl (Huck); Albany (NYS); **LI:** Hicksville, Valley Stream, Ap (Huck), reared from beet leaves (Huck).

H. bicaudata Mall. Ithaca, Ap; **LI,** Ap (Huck).

H. brassicae Bouché. CABBAGE MAGGOT. Clinton Co (Felt); Onondaga Co; Wayne Co; Orleans Co; Monroe Co; Ontario Co; Chautauqua; Ithaca; McLean; Albany Co; **LI:** general. Generally distributed. A serious pest of cabbage, cauliflower, brussels sprouts, and radishes.

H. cilicrura Rond. (*Phorbia fusciceps* Am. auct. not Zett.). SEED CORN MAGGOT. Chazy; Mooers; Rodman; Macedon; Rochester; Shortsville; Middleport; Lockport; Erie Co (MCV); Dansville; Watkins; Tompkins Co; Auburn; Cortland; Syracuse, *Blkm* (Hine); Stephentown; Oliverea (Beq); Yonkers; **SI:** Watchogue (Bs); **LI:** Pennequid Barrens, Great R. Widely, probably generally, distributed. In some seasons very injurious to sprouting beans.

H. coarctata Fall. "NY?" (Fallén).

H. coenosiaeformis Stein. Mt. Whiteface, 2000–4000 ft., Aug (Huck); Old Forge, First L., Aug; Saranac, Wells (NYS); Adirondack Lodge, *Leon* (Huck); Cranberry Cr. (NYS); L. Tear (Beq); Ithaca, Je–Aug (Huck).

H. curvipes Mall. Ithaca, May–Jl (Huck); Montezuma Marshes, Cayuga, Jl (Huck).

H. depressa Stein. Wells, Northampton, Je (NYS); Oswego, Jl, *West* (Huck); Ithaca, Jl–Aug (Huck); Albany, Scotia (NYS); Kinderhook, Je (NYS); Durlandville, Florida, Je, *FrostSW* (Huck).

H. florilega Zett. (*planipalpis* Stein, pp.). Ithaca, Jl (Huck).

H. fugax Meig. Ithaca, May, Sep–Oct (Huck); McLean, Sep (Huck). The larvae mine leaves of Chenopodium, Amaranthus, spinach, and beet (FrostSW).

H. grandivillosa Huck. **LI:** Hempstead, Ap (Huck).

H. inconspicua Huck. **LI:** Hempstead, Ap (Huck).

H. innocua Mall. Gloversville, Jl, *Alex* (Huck); Wells, Cranberry Cr. (NYS); Ithaca, Jl; McLean, Jl–Aug, *Sib* (Joh).

H. inornata Stein. Ithaca, May (Huck); McLean, May–Sep, *Sib* (Joh); Shandaken, Je, *Leon* (NYS).

H. ithacensis Huck. Ithaca, Ap–May (Huck).

H. laevis Stein. Ithaca, Je, Sep (Huck); McLean, Jl, *Sib* (Joh).

H. lasciva Zett. Old Forge, *Leon* (Huck); Ithaca, Ap–Jl (Huck).

H. latifrontalis Huck. **LI:** Wading R., Cold Sp. Harb. (Huck).

H. latipennis Zett. Mt. McIntyre, Aug, *Snn&Sib*, *Bish* (Huck); Hamburg, Aug (MCV); Ithaca, May–Aug; McLean, May, *Leon* (Huck).

H. megacephala Mall. Ithaca, May; Montezuma Marshes, Cayuga, Je (Huck).

H. piloseta Mall. Mt. Marcy, Jl, *Fbs* (Huck); Ithaca, Je (Huck).

H. pluvialis Mall. Wells (NYS); Buffalo, Je (MCV); Ithaca, Jl–Aug (Huck); McLean, Jl–Sep, *Sib* (Joh).

H. pullula Zett. Ithaca, May, *West* (Huck).

H. sepia Meig. **LI:** Hempstead, Ap (Huck).

H. setigera Joh. Rock City, Je; Ithaca, Je–Jl (Joh); Oliverea, Je, *Ds* (Ald); **LI:** Lakeville, Glen Head, May (Huck).

H. setitarsata Huck. Speculator, Je (NYS); Ithaca, Ap–May; McLean, May, *Sib* (Joh); **LI:** Hempstead, Ap (Huck).

H. simpla Coq. Adirondacks, Jl, *Ald* (Huck).

H. spizellae Huck. Ithaca, reared from nests of chipping sparrow and robin by Dobroscky (Huck).

H. testacea Stein. Adirondacks (Joh); Oswego, Jl (Huck); Ithaca, Je; Kinderhook, Je; Durlandville, Je.

H. trichodactyla Rond. Speculator, Je (NYS); Peru, Jl; Ithaca, Sep; McLean, May, Jl, *Sib* (Joh); Clayville, Je, *Leon* (NYS); **LI:** Hempstead, Je (Huck).

H. trivittata Stein. Wells, Big Moose, Blue Mt., *Yg* (NYS); **LI:** Lakeville, Hempstead, Jl, Sep (Huck).

H. unidorsalis Huck. Ithaca, Ap (Huck).

H. uniseriata Stein. Adirondacks, Jl, *Ald* (Huck).

H. variata Fallén. Wells, Jl (NYS); Ithaca, Ap; McLean; Albany, Coeymans, Je (NYS); **LI:** Searingtown, Sep (Huck); Long Beach (Beq).

PYCNOGLOSSA Coquillett

(*Pogonomyza* Schnabl and Dziedzicki)

P. cinerosa Zett. Ringwood, Je (Huck).

P. flavipennis Fall. Malloryville, Je, Freeville, Jl (Huck).

P. gleniensis Huck. Coy Glen, Ithaca, May (Huck); Karner, Je (NYS).

P. proboscidalis Mall. (*campestris* Huck.). Cayuga, Je (Huck); **LI:** Plandome, Hempstead, May–Je (Huck).

P. spinosissima Mall. Wells, Jl (NYS); Ringwood, Jl (Huck).

EGLE Robineau-Desvoidy

(*Xenophorbia* Malloch)

E. muscaria Fab. Ithaca, Ap (Joh); Karner, Ap (NYS); Nyack, W. Nyack, Jl (Huck); **SI:** Oakwood, Ap, *Beq&Bs* (Huck).

E. longipalpis Mall. Ithaca, Ap–May (Huck); Albany, Je, Karner, Ap (Huck-NYS); **SI:** Oakwood, *Bs* (Huck); **LI:** Baiting Hollow, Ap (Huck).

PAREGLE Schnabl and Dziedzicki

P. cinerella Fall. Speculator, Wells, Je–Jl (NYS); Hamburg, May (MCV); Otto, Jl; Ithaca, May–Sep (Joh); McLean, Sep, *Sib* (Joh); Albany, Nassau, May (NYS); **SI**, Aug, *Ds* (Ald); **LI**: Franklin Sq., Ap; Searingtown, Long Beach, Sep (Huck).

P. radicum L. Keene Val., Aug (Huck–NYS); L. Tear (Beq); Speculator, Je, Wells, Jl (Huck–NYS); Ithaca, Sep (Huck); McLean, Aug–Sep, *Sib* (Joh); Ilion, May (NYS); Albany, Karner, Je (Huck–NYS); Poughkeepsie, Je (NYS); **SI**, *Bs* (Ald); **LI**: Glen Head, Ap, Aug; Central Pk. (Beq); Mineola, Jl (NYS).

PEGOMYIA Robineau-Desvoidy

P. acutipennis Mall. L. George, Sep, *Leon* (Huck).

P. affinis Stein. Speculator and Wells, Je–Jl (NYS); Colden, Je (MCV); Rock City (Joh); Ithaca, May–Sep (Joh); McLean, May, Aug–Sep, *Sib* (Joh); Karner, Easton, May–Je (NYS); Germantown, Je (NYS); White Plains (Beq).

P. bicolor Wied. Northville, Je, *Yg* (NYS); McLean, Aug–Sep, *Sib* (Joh); Syracuse, *Blkm* (Hine); Albany, May (NYS); Niverville, May (NYS); Shandaken, Je, *Leon* (NYS); **LI**: Aug–Sep (Huck); Cold Sp. Harb. (Beq); Orient, Jl (NYS).

P. calyptrata Zett. L. George, Sep; Ithaca, May–Aug (Joh); Clinton Hgts., May, (NYS); **LI**: Hempstead, Ap (Huck).

P. connexa Stein (*emmesia* Mall.). Adirondack Lodge, Je, *Leon* (NYS); Ithaca, Ap; Riders Mills, *Bish* (NYS); Thacher Pk., Thompson L., Karner, May, *Leon* (NYS); **LI**: Cold Sp. Harb., Sep (Huck).

P. dissecta Meig. Mt. McIntyre, summit (NYS); McLean, May, Ringwood, Jl (Huck); Slide Mt., Catskills, Je, *Leon* (NYS).

P. fringilla Mall. Ithaca, May–Je (Huck); Albany, May (NYS).

P. fuscofasciata Mall. L. George, Aug, *Leon*; Karner, Je, *Leon* (NYS); Ithaca, Ringwood, Je; **LI**: Smithtown, Hempstead (Huck).

P. geniculata Bouché. Speculator, Jl (NYS); Herkimer, Aug, *Leon*; Greene Co (Ald); Ithaca, Je; McLean Bogs, Sep; Albany, Je (NYS); **LI**: Cold Sp. Harb., Sep (Huck).

P. hyoscyami Panz. (*vicina* Lint.). SPINACH LEAF MINER. Gouverneur; Morrisville; Ithaca; Cobleskill; Middleburg; Middletown; **SI**; **LI**: Jamaica; Elmont; Hempstead. The larvae mine leaves of beets, spinach, chard, and Chenopodium; often injurious.

P. juvenilis Stein. Cranberry Cr., Wells, Jl (NYS); Ithaca, May; L. George, Sep, *Leon*; **SI**: Richmond, Watchogue, Jl, *Bs* (Ald); **LI**: Lakeville, May (Huck).

P. lipsia Wlk. Keene Val., Trenton Falls, Wells, Speculator, Je–Jl (NYS); Aurora, May (Huck); Ithaca, McLean, May–Sep (Joh); Thacher Pk., Easton, May, *Leon* (NYS); Poughkeepsie, Shandaken, Je (NYS); Yorktown Hgts., *Ols* (Beq).

P. littoralis Mall. Old Forge, Aug (Huck).

P. luteola Mall. L. George, Aug, *Leon*; Ithaca, Je; **LI**: Cold Sp. Harb., Lakeville (Huck).

P. nigritarsis Zett. Montezuma Marshes, Cayuga, Je; **LI**: Valley Stream, Ap (Huck).

P. rubivora Coq. RASPBERRY CANE MAGGOT. Ithaca, Ringwood, May (Huck); L. George, Je; Rome, May.

P. ruficeps Stein. Ithaca, Jl; Albany, Je (NYS); **LI:** Riverhead, Jl (Huck).

P. slossonae Mall. **LI:** Wading R., Jl (Huck).

P. unicolor Stein. Wells, Jl (NYS); Ithaca, Je–Jl; McLean, Jl, *Sib* (Joh); **SI,** Jl (Huck,Beq); **LI:** Lakeville, Little Neck, Jl–Aug (Huck).

P. vanduzeei Mall. Ithaca, Taughannock Falls, Ap–May (Huck); Florida (Frost). The larvae mine leaves of Rumex.

P. vittigera Zett. Foot of Mt. Redfield, Essex Co (Beq).

P. winthemi Meig. Ithaca, Je–Sep; McLean, Aug–Sep, *Sib* (Joh); **LI:** Lakeville, May (Huck).

PROBOSCIMYIA Bigot

P. siphonina Bigot. Westfield, Sep (Stein).

SUBFAMILY FUCELLIINAE

FUCELLIA Robineau-Desvoidy

F. maritima Hal. Juanita I., L. George, Sep 1, *Leon* (Joh); **LI:** Rockaway, Long Beach (Beq).

FAMILY SCATOPHAGIDAE

(*Cordyluridae*)

CORDILURA Fallén

C. carbonaria Wlk. (*gagatina* Lw.). "NY" (Wlk); McLean, May, Jl (CnJr).

C. cornuta Lw. Ithaca and vic., May (Joh).

C. gracilipes Lw. (*Parallelomma gracilipes* Lw.). Saranac L., Jl; Erie Co, Je, Aug (MCV); Ithaca, May (CnJr); **LI:** Wyandanch, Ols (Beq).

C. latifrons Lw. (*confusa* Lw.). Van Cort. Pk., May (Bks); Erie Co, Je–Aug (MCV); Ithaca, McLean, Je (Joh); Catskills, Sep.

C. praeusta Lw. Erie Co, Je, Oct (MCV); Ithaca, May, Je, Sep (Joh); Karner (NYS).

C. setosa Lw. Mix Cr. Val.; Colden, May (MCV); Ithaca, Je (Joh); Mohawk R. Val. (Beq); W. Nyack (Beq).

C. terminalis Lw. McLean, Jl (CnJr); Albany (NYS).

C. variabilis Lw. Foot of Mt. Redfield, 2500 ft. (Beq).

PARALLELOMMA Becker

P. banksi Mall. "NY" (Lw), type.

P. dimidiata Cress. Ithaca, May (CnJr).

P. munda Lw. L. Tear, Upper Ausable L. (Beq); Lancaster (MCV); Little Valley, Aug (MCV); Inwood; NYC, *Schott* (Beq).

P. pleuritica Lw. (*slossonae* Coq.). Erie Co, Je, Oct (MCV); Ithaca, Jl (Joh); McLean, May (CnJr); Nassau, Aug.

P. scapularis Lw. NYC, May (Sturt).

HEXAMITOCERA Becker

H. flavida Coq. Caroline, Je (CnJr).

ACHAETELLA Malloch

A. varipes Wlk. (*bimaculata* Wlk.). L. Tear (Beq); Fulton Co; Erie Co, May–Aug (MCV); Ithaca, May–Jl (Joh); McLean, Jl (CnJr); Manlius; Albany (NYS); White Plains (Bks); Pine I.; Mosholu.

ORTHACHAETA Becker

O. amoena Cress. Ithaca, Ap–May (CnJr).

ACANTHOCNEMA Becker

A. capillata Lw. "NY" (Lw); Old Forge, Jl.

MEGOPHTHALMA Becker

M. lutea Lw. McLean, Sep, *Sib* (Joh).

SPATHIOPHORA Rondani

S. cincta Lw. Ithaca, Je (CnJr).

MICROPROSOPA Becker

M. haemorrhoidalis Meig. L. Tear (Beq); Buffalo, Oct (MCV); Karner.

SCATOPHAGA Meigen

S. furcata Say. Gloversville, Mar; Erie Co, May–Oct (MCV); Niagara Falls, Je (Jn); Syracuse, *Blkm* (Hine); Ithaca, Ap–Jl; McLean, May (CnJr); W. Nyack (Beq); NYC, Mar–Nov (Sturt); **SI** (Beq); **LI:** Farmingdale, Flushing (Beq).

S. merdaria Fab. Niagara Falls, Je (Jn).

S. nigrolimbata Cress. Upper Ausable L. (Beq); Ithaca, Je; McLean, May (CnJr); Beaver Kill, Aug (CnJr).

S. stercoraria L. Common and widely distributed, representative localities being: Mt. McIntyre, Jl; L. Tear (Beq); Axton; Erie Co, Ap–Oct (MCV); Otto, May, Je (Joh); Clifton Sps., Aug; Ithaca; McLean, May; Manlius; Johnstown; Albany (NYS); NYC, Oct (Sturt); **LI:** Brooklyn (Beq); Flushing (Beq).

S. suilla Fab. L. Tear and foot of Cliff Mt. (Beq); Wells, Jl (*Yg*); Niagara Falls, Je (Jn).

HYDROMYZA Fallén

H. confluens Lw. L. George, Jl (CnJr).

FAMILY HELOMYZIDAE [105]

TEPHROCHLAMYS Loew

T. canescens Meig. (*rufiventris* Meig.). Upper Ausable L. (Beq); Speculator, Je (Garr-NYS); Ithaca, Ap–May; Erie Co, Ap, Je, *MCV* (CnJr).

[105] The list for this family has been checked by C. B. D. Garrett, who has added records and made some changes in synonymy.

SUILLIA Robineau-Desvoidy

(*Helomyza* Fallén 1820, not 1810)

S. apicalis Lw. Taughannock Falls, Ap.

S. longipennis Lw. Upper Ausable L. (Beq); Erie Co, including Little Valley, Je–Jl (MCV); Ithaca, Je–Aug (CnJr).

S. plumata Lw. Newport, Je (Garr-NYS); N. Fair Haven; Manlius (OS); Ithaca, Je–Aug; Erie Co, May–Aug (MCV); Oswego.

S. quinquepunctata Say. Ithaca, Je (CnJr).

ALLOPHYLA Loew

A. laevis Lw. L. Tear, Upper Ausable L. (Beq); Niagara Falls, Je (Jn); Erie Co, including Little Valley, Jl–Sep (MCV); Ithaca, Aug.

OECOTHEA Haliday

O. fenestralis Fall. (possibly *O. canadensis* Garr.). N. Evans, Nov (MCV); Ithaca (CnJr); Albany, Nov (NYS); NYC, May (Sturt); **LI:** Cold Sp. Harb., May (Sturt).

AMOEBALERIA Garrett

A. defessa O.S. (possibly *sackeni* Garr.). Niagara Falls, Je (Ald); Ithaca, Feb (CnJr).

A. flavotestaceus Zett. (*biseta* Lw.) (*Leria* Desv.). Boston, Sep, *MCV*.

A. sackeni Garr. Clarksville (Garr), paratype.

ANOROSTOMA Loew

A. marginata Lw. Oswego, Jl (Ald); Buffalo, Je (MCV); **LI:** Yaphank (Ols). Garrett writes that there are six species in the genus and that this is possibly *A. jerseyi* Garr.

SCOLIOCENTRA Loew

S. helvola Lw. Manlius; Erie Co, Je–Jl (MCV); Silver L., Jl (MCV); McLean; Ithaca, Je–Aug (Ald); Nassau, Oct; Poughkeepsie, Jl (Garr-NYS).

S. helvola var. **angustifrons** Bks. Ithaca.

S. tincta Wlk. var. **pubescens** Lw. Ithaca, Mar (Snn).

POSTLERIA Garrett

(*Neoleria* Malloch)

P. leucostoma Lw. Ithaca (CnJr).

HELEOMYZA Fallén 1810

(*Leria* auct., in part)

H. serrata L. Ithaca (Joh).

PSEUDOLERIA Garrett

P. pectinata Lw. NYC (Joh); **LI:** Cold Sp. Harb., *And* (Sturt). Garrett writes that this is a composite containing ten forms or species.

LUTOMYIA Aldrich

L. spurca Ald. Ithaca, Oct, Joh (Ald), type.

FAMILY **CLUSIIDAE**

(*Heteroneuridae*)

CLUSIA Haliday

C. czernyi Jn. Sacandaga R., Je, Alex; Erie Co, May, Je; Holland, May (Jn); Little Valley, Je (MCV); Chautauqua L., Je (MCV); Ithaca (Mel); Albany, Je.

C. lateralis Wlk. Erie Co, Je, Aug (MCV); Ithaca (Joh); Albany, Je; **SI** (Beq).

CLUSIODES Coquillett

(*Heteroneura* Fallén 1823, not 1810)

C. albimana Meig. E. Aurora, Je.

C. americana Mall. Ithaca, May (Mel); Upper Ausable L. (Beq).

C. atra Mel. & Argo. Ithaca (Mel).

C. johnsoni Mall. Cortland Co (Mel).

C. melanostoma Lw. Holland, May; Ithaca, Ap (Joh); E. Aurora, Je (MCV); L. Tear (Beq).

FAMILY **BORBORIDAE**

SPHAEROCERA Latreille

S. pusilla Fall. Buffalo (MCV); NYC, Oct (Sturt).

S. subsultans Fab. Ithaca (Joh); NYC, Mar–May (Sturt).

LEPTOCERA Olivier

(*Limosina* Macquart)

L. atra Adams. **LI:** Cold Sp. Harb. (Spuler).

L. brachystoma Stenh. **LI:** Cold Sp. Harb. (Spuler).

L. crassimana Hal. Bear Mt., Je (Sturt).

L. evanescens Tucker. NY.

L. ferruginata Stenh. Albany, Mar–Ap (Sturt); Bear Mt., Je (Sturt).

L. fontinalis Fall. McLean, Jl; W. Nyack (Beq); **SI,** Oct (Sturt).

L. fuscipennis Hal. NY (Spuler).

L. levigena Spuler. **LI:** Cold Sp. Harb. (Spuler).

L. limosa Fall. Newport, Je, *Yg*; Albany, Ap.

L. longicosta Spuler. NY.

L. lutosa Stenh. McLean, Jl (Sib); W. Nyack (Beq).

L. mitchelli Mall. Ithaca, Aug, *Joh* (Mall).

BORBORUS Meigen

B. equinus Fall. Ithaca, common (Joh); McLean, Jl–Aug; NYC, Feb, in greenhouse (Sturt); **LI:** Cold Sp. Harb., *Mel* (Spuler).

B. marmoratus Beck. (*brevisetus* Mall.). Bear Mt., Je (Sturt); Garrison, May (Sturt); **LI:** Cold Sp. Harb., *Mel* (Spuler).

SCATOPHORA Robineau-Desvoidy

(*Olina* Macquart)

S. carolinensis Desv. (*geniculata* Macq.). Niagara Falls, Je (Jn); Geneva; McLean, May–Jl, *Sib* (Joh); Ramapo Mts. (Sturt); Garrison, May (Sturt); Pine I., Sep (AM); **LI:** Cold Sp. Harb., *Mel* (Spuler).

FAMILY SCIOMYZIDAE

NEUROCTENA Rondani

N. anilis Fall. Ogdensburg, Je (NYS); Johnstown; Niagara Falls; Wells, Jl (Yg); Ithaca, Aug (Joh); McLean, Ap; Karner, Je (Jn); Rensselaer, Je (NYS); Oliverea (Beq).

N. simplex Lw. Ithaca, Je, Aug (CnJr); Karner, May (NYS).

DRYOMYZA Fallén

D. dayi Cress. Ithaca, Jl (CnJr).

OIDEMATOPS Cresson

O. ferruginea Cress. Niagara Falls, Je (CnJr).

SCIOMYZA Fallén

S. aristalis Coq. Niagara Falls, Jl (CnJr).

PTEROMICRA Lioy

P. nigromana Mg. McLean, Aug, *Sib* (Joh).

ATRICHOMELINA Cresson

A. pubera Lw. Ithaca, Jl (CnJr); Beaver Kill, Aug (CnJr).

PHERBELLIA Robineau-Desvoidy

(*Melina* Robineau-Desvoidy 1830, not Retzius 1788)

P. albovaria Coq. Saranac Inn, Je (NYS); L. Placid, Aug (NYS); Ithaca, Je (CnJr); Niagara Falls, Jl (MCV).

P. annulipes Zett. "NY" (Mel).

P. grisescens Meig. **LI:** Cold Sp. Harb. (Beq).

P. nana Fall. Ithaca, May–Aug (Joh); W. Nyack (Beq); W. Winfield, Je, *Leon* (NYS); NYC, Oct (Sturt); **SI,** Oct (Sturt).

P. schoenherri Fall (*maculata* Cr.). Ithaca, Jl; Mosholu, Sep 9, *Lutz* (AM).

ANTICHAETA Haliday

A. melanostoma Mel. Ithaca, Je, Jl; Beaver Kill, Aug (CnJr).

RENOCERA Hendel

R. longipes Lw. Ithaca, May (CnJr).

POECILOGRAPHA Melander

P. decora Lw. Gloversville; Rochester, Je, Jl (Ald); Tompkins Co, Je–Aug (Mel); L. George, *OS* (Lw); Elba, Je (MCV); Rock Glen, Jl (MCV); Erie Co, Je–Aug (MCV); Voorheesville, Je (Leon).

DICTYOMYIA Cresson

D. ambigua Lw. McLean, Sep, *Sib* (Joh).

EUTHYCERA Latreille

E. arcuata Lw. (*flavescens* Lw.). Speculator, Aug (Yg); Wells, Jl (Yg); Newport, Jl (Yg); Axton; Upper Ausable L. (Beq); Gowanda, Je (MCV); Ithaca; Poughkeepsie, Je–Aug.

E. arcuata var. **uniformis** Cress. Ithaca, Je (CnJr); **LI:** Forest Pk., *Schott* (Beq).

TRYPETOPTERA Hendel

T. canadensis Macq. (*T. pallida* Lw.). Manlius; Erie Co; Ithaca, Jl (CnJr).

HOPLODICTYA Cresson

H. setosa Coq. Larchmont, Aug (NYS); **LI:** Cold Sp. Harb. (Beq).

DICTYA Meigen

D. umbrarum L. (*Tetanocera*). Elm L., Aug, *Yg* (NYS); Hamburg (MCV); Little Valley, Aug (MCV); Ithaca; Albany and vic., Je–Jl (NYS); Carmel, Aug (AM); Poughkeepsie, May (NYS); Goshen, Sep (AM); White Plains, *Beq*; W. Nyack (Beq); NYC, Oct (Sturt); **SI,** Oct (Sturt); **LI:** Cold Sp. Harb. (Beq); Little Neck, *Schott* (Beq).

LIMNIA Robineau-Desvoidy

L. boscii Desv. (*combinata* Lw.). Saranac Inn, Je (Coq); Piseco L., Aug (NYS); Manlius (OS); Erie Co, Je (MCV); Gowanda, Je (MCV); Ithaca, Je–Aug; McLean, Je; Sacandaga Pk., Aug, *Alex* (NYS); Albany, Je (NYS); **LI:** Cold Sp. Harb. (Beq).

L. boscii Desv. var. **sparsa** Lw. Ithaca, Jl (CnJr).

L. costalis Lw. Ithaca, Aug (CnJr); Albany, Aug (NYS).

L. saratogensis Fitch. Adirondacks, Saranac, Keene Val., North Cr., Aug (NYS); Erie Co (MCV); Ithaca; McLean, Jl; Broadalbin, Je; Saratoga; Albany, Je, Clinton Hgts., Je, Poughkeepsie, May (NYS); Mosholu (Bks); Fishkill, Jl; **LI:** Wyandanch, *Ols* (Beq).

TETANOCERA Dumeril

T. brevis Cress. Oswego, Aug (CnJr).

T. clara Lw. Saranac Inn (Coq); L. Placid, *EPV* (NYS); Upper Ausable L., Jl (NYS); Speculator, Wells, Jl–Aug, *Yg* (NYS); Johnstown, Aug (Yg); Wells, Jl (Yg); Trenton Falls, Je, *Yg*; Poughkeepsie, Je (NYS); W. Nyack (Beq).

T. elata Fab. Ithaca, Je–Aug (CnJr).

T. ferruginea Fall. Ithaca, May–Aug (CnJr).

T. plebeja Lw. Northville, Speculator, Je–Aug, *Yg* (NYS); Elizabethtown, Je (NYS); Mt. Skylight, 4800 ft., Upper Ausable L. (Beq); Axton; Elm L., Aug, Chazy L., Je, Mt. Marcy, Jl, 5000 ft. (NYS); Cranberry Cr., Je, *Yg*; Niagara Falls, Je (Jn); Erie Co (MCV); McLean; Ithaca (Joh); Trenton Falls, Je, Corinth, May, *Yg*; Albany, May, Je, Karner, Je, Rensselaer, Nassau, May, Poughkeepsie, Je (NYS); Pine I., Sep (AM); White Plains, Mosholu, May–Aug (Bezzi); W. Nyack (Beq).

T. rotundicornis Lw. Colden, May (Jn); Hamburg, May (MCV); Little Valley, Je (MCV).

T. triangularis Lw. Ithaca, May–Aug (CnJr).

T. valida Lw. Erie Co, Je (MCV); Ithaca, Je, Jl (Jn); Manlius (OS); Dug Mt., Adirondacks, Aug, *Yg*; W. Nyack, *Beq.*

T. vicina Macq. (*T. plumosus* Lw.). Upper Ausable L., L. Tear (Beq); Essex Co, Keene Val., Aug (NYS); Blue Mt., Jl, *Yg*; Saranac Inn, Jl, Mt. Marcy, 1400 ft. (NYS); Manlius; Olcott, Jl, Erie Co., Jl–Sep (MCV); Otto, Jl–Aug (Joh); Ithaca, May–Sep (CnJr); McLean (CnJr); Schodack Landing, Je (NYS); Albany, Je; Nassau, Jl (NYS); W. Nyack (Beq); Mosholu (Bezzi); **SI**, Sep (Sturt); **LI**: Huntington, *Schott.*

HEDRONEURA Hendel

H. rufa Panz. (*T. lineata* Day). Olcott, Jl, Buffalo, Oct (MCV); Ithaca, Mar–Je (Joh); McLean, Je.

SEPEDON Latreille

S. armipes Lw. Dayton, Jl, Lewiston, Aug (MCV); Manlius (Joh); McLean, Jl; Ithaca, May; W. Nyack (Beq); Yaphank, Sep.

S. fuscipennis Lw. Saranac Inn (Coq); Erie Co, May–Sep (MCV); Ithaca, May–Je (CnJr); Fulton Co; Karner, Ap (Yg); Mosholu, May (Bks); L. Placid, Aug, *EPV* (NYS); Carmel, Aug (AM); W. Nyack (Beq); Pine I., Jl (NYS); **LI**: Bellport (Coq).

S. pusillus Lw. Saranac Inn, Aug (NYS); Rochester, Sep (NYS); Erie Co, Je–Oct (MCV); Ithaca, Je (CnJr); McLean, Jl; Karner, Ap (NYS); Johnstown; **LI.**

FAMILY SAPROMYZIDAE

LAUXANIA Latreille

L. cylindricornis Fab. Upper Ausable L. (Beq); Chapel Pond, Je (NYS); L. Placid, Jl; Speculator, Aug; Axton, Je; Wells, Jl (NYS); Niagara Falls, Je (Jn); Ithaca, May (Joh); McLean, Jl (Joh).

LAUXANIELLA Malloch

L. manuleata Lw. Ithaca, Jl (CnJr).

CAMPTOPROSOPELLA Hendel

C. verticalis Lw. Lancaster, Je (MCV).

C. vulgaris Fitch. Essex Co, Aug (NYS); Erie Co, Je–Sep (MCV); Ithaca, Je; Albany, Je; Mosholu, May; NYC, Oct (Sturt); **LI:** Orient (Beq).

DECEIA Malloch

D. gracilipes Lw. Boston, Sep (MCV); Manlius (OS); Ithaca, Jl, Aug (CnJr).

CALIOPE Haliday

C. flaviceps Lw. Ithaca, Ap (Joh); Ft. Edward (Lint); Mt. Vernon (Jn).

MINETTIA Robineau-Desvoidy

M. americana Mall. (*longipennis* auct. not Fab.). Axton; Ithaca and vic., Je; Albany (NYS); Poughkeepsie (NYS); Bear Mt., Je (Stuart); **LI:** Central Pk. (Beq).

M. lupulina Fab. Upper Ausable L. (Beq); Chapel Pond, Je (NYS); W. Winfield, Je (NYS); Speculator; Trenton Falls, Je, Jl (Jn); Erie Co (MCV); Ithaca, Manlius (Joh); Albany (NYS); **SI,** Je (Sturt).

M. obscura Lw. Niagara Falls, Je (Jn); Erie Co, Je, Jl (MCV).

M. valida Wlk. NY.

SAPROMYZA Fallén

S. annulata Mel. Upper Ausable L. (Beq); Chazy L.; Karner; Axton; Niagara Falls, Je (Jn); Erie Co, Je (MCV); Caroline; Ithaca (CnJr).

S. quadrilineata Lw. S. Wales, Jl (MCV); Ithaca, Je, Jl, Sep (Joh).

S. rotundicornis Lw. Poughkeepsie, Albany, Je (Yg).

SAPROMYZOSOMA Malloch

S. bispina Lw. Erie Co, Je (MCV); **LI:** Pennequid Barrens (Beq).

S. compedita Lw. Adirondacks, Jl, Aug (NYS); Erie Co, Je, Jl (MCV); Ithaca, Je; Albany, Je.

S. conjuncta John. Ithaca, Je (Jn); McLean, Jl, Aug (Joh).

S. disjuncta John. (*similata* Mall.). Ithaca (Jn); NYC (Beq).

S. fraterna Lw. Adirondacks, Je, Jl (NYS); Speculator, Aug; Honeoye Falls, Jl (Leon); Grand I., Je (MCV); McLean, Aug, Sep, *Sib* (Joh); Albany, Aug.

S. houghi Coq. Albany, Poughkeepsie, Jl (NYS).

S. incerta Mall. McLean, Aug, *Sib* (Joh).

S. philadelphica Macq. Erie Co, Je–Aug (MCV); Otto, Jl; Ithaca; Manlius (OS); Oliverea (Beq); Bear Mt., Je (Sturt).

S. sheldoni Coq. Oswego, Aug (Coq); McLean, Jl.

FAMILY LONCHAEIDAE

LONCHAEA Fallén

L. polita Say (*rufitarsis* Macq.). L. Placid (NYS); Axton (Joh); Syracuse, *Blkm* (Hine); Rochester (MCV); Niagara Falls, May–Jl (Jn); Erie Co, May–Sep; Ithaca; Johnstown.

L. vaginalis Fall. Durlandville, Je, *Frost.*

FAMILY **PALLOPTERIDAE**

PALLOPTERA Fallén

P. superba Lw. Niagara Falls, Je (Jn); Erie Co, Jl–Aug (MCV); Ithaca (Joh).

FAMILY **ORTALIDAE**

AMPHICNEPHES Loew

A. pertusus Lw. Karner, Je (Yg); Gowanda, Je (MCV); Mosholu, Je (Hendel); **LI:** Yaphank, *Ols* (Beq); Pennequid Barrens (Beq).

RIVELLIA Robineau-Desvoidy

R. cognata Cress. Ithaca, Jl (CnJr); Bear Mt., Je (Sturt).

R. flavimana Lw. Fulton Co; Niagara Falls, Je; Erie Co, May–Jl (MCV); Ithaca, Je–Aug (Joh); Poughkeepsie, May; Mosholu, May (Hendel); **SI,** Je (Sturt).

R. metallica Wulp. Ithaca, Jl (CnJr).

R. pallida Lw. Erie Co, Je–Aug (MCV); Little Valley, Jl (MCV); L. Waccabuc, Jl (AM); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); Mosholu, May (Hendel); **LI:** Flatbush, Je (AM).

R. quadrifasciata Macq. Ithaca, Jl (CnJr); **LI:** Long Beach (Beq).

R. variabilis Lw. Little Valley, Jl (MCV); Ithaca, Jl (CnJr); Poughkeepsie, May (Yg).

R. viridulans Desv. L. Pleasant, Jl (NYS); Newport (NYS); Olcott, Jl (MCV); Erie Co, Jl (MCV); Ithaca, Jl; Oliverea (Beq); Albany; Red Hook, Je (Leon); Richmond Hill, Jl (Jn); West Pt., Je (AM); Rye Pt. Pond, Je (AM); Nyack (AM); Mosholu (AM); NYC, Je, *EBSouthwick* (AM); **SI,** Je (Sturt); **LI:** Central Pk. (Beq); Massapequa, Jl 11, Yaphank, May 30, *Ds* (CnJr); Orient (Beq).

MYRMECOTHEA Hendel

(*Myrmecomyia,* not of Robineau-Desvoidy)

M. myrmecoides Lw. **LI:** Sea Cliff; Wading R., Aug 6, *Ds* (Jn); Yaphank, Je 11, *Ds* (CnJr).

TRITOXA Loew

T. incurva Lw. Poughkeepsie, Jl (Yg); Mosholu, Jl (Hendel); **SI** (Sturt).

CAMPTONEURA Macquart

C. picta Fab. Kingston, Aug (Yg); **SI,** Je (Beq); **LI:** Flatbush, *Eng* (Beq); Jamaica (Beq).

IDANA Loew

I. marginata Say. **SI,** Je (Sturt); **LI:** Rockaway, Je 4, *Ds* (Dru); Flushing, Wading R., Huntington, Pennequid Barrens, Flatbush, *Schott & Eng* (Beq); Bergen Beach, Brooklyn, *Eng* (Beq); Yaphank, Je (CnJr).

TEPHRONOTA Loew

T. canadensis John. Essex Co, Jl (NYS); Caroline, Je (CnJr).

T. narytia Wlk. (*ruficeps* Wulp). Gowanda, Je (MCV); Manlius, Ithaca, Je (Joh); Poughkeepsie, Je; Mud Cr., Tompkins Co, Je (CnJr); **LI:** Yaphank, Jl (CnJr).

MELIERIA Robineau-Desvoidy

M. ochricornis Lw. Adirondacks, Aug (Joh).

M. similis Lw. Saranac Inn, Jl (Coq); Elba, Je (MCV); Ithaca, Jl (CnJr); Gloversville, Je, *Alex* (CU).

TETANOPS Fallén

T. luridipennis Lw. **SI** (Sturt).

CALLOPISTROMYIA Hendel

C. annulipes Macq. Buffalo, May (MCV); Manlius (Joh); Tompkins Co, including Ithaca; Nassau, Ap; **LI:** Flushing, Mar; Half Way Hollow Hills, Jl 2, *Ds* (CnJr); Little Neck, *Schott* (Beq); Yaphank, Je (CnJr).

PSEUDOTEPHRITIS Johnson

P. corticalis Lw. Ithaca (Joh).

P. cribrum Lw. Ithaca, Jl (CnJr).

P. vau Say. E. Aurora, Je (MCV); Colden, Jl (MCV); Ithaca, Ap, Aug (CnJr); Nassau, Ap; **LI:** Half Way Hollow Hills, Jl 4, Amagansett, Sep 20, *Ds* (CnJr); Pennequid Barrens (Beq); Cold Sp. Harb. (Sturt); Half Way Hollow Hills, Jl (CnJr).

P. vau var. **approximata** Bks. Ithaca, Aug (CnJr).

CHRYSOMYZA Fallén

C. demandata Fab. Ft. Montgomery, *Schott* (Beq); NYC, Feb–Oct (Sturt); **SI** (Sturt); **LI:** Flatbush, *Schott* (Beq).

EUXESTA Loew

E. notata Wied. Erie Co; Ithaca and vic. (CnJr); NY Bot. Gardens, Jl; NYC, Oct (Sturt); **LI:** Brooklyn, *Schott* (Beq); Cold Sp. Harb. (Sturt).

CHAETOPSIS Loew

C. aenea Wied. Mosholu, Oct (Hendel); **SI,** Je (Sturt); **LI:** Kings Pk. (Beq); Maspeth, Je, *Ols* (Beq); Gardiners I., Cold Sp. Harb., Long Beach (Beq).

C. apicalis John. West Farms, NYC, Sep (AM); **SI; LI:** Cold Sp. Harb., May (Beq).

C. fulvifrons Macq. L. Tear (Beq); Ithaca, May, Aug (Jn, CnJr); NYC, Sep (Sturt); **SI,** Je, Oct (Sturt); **LI:** Sea Cliff (CnJr); Long Beach (Beq).

C. massyla Wlk. Adirondacks, Aug (CnJr); Potsdam, Jl (CnJr); Oswego, Jl (Jn); Ithaca; McLean, Jl (CnJr); Dryden L., Je (CnJr); Carmel, Aug (AM); **LI:** Wyandanch, *Ols* (Beq).

SEIOPTERA Kirby

S. albipes Cress. Ithaca, May, Je (CnJr).

S. vibrans L. Niagara Falls, Je; Buffalo, Je–Jl (MCV); Elba (MCV); Olcott, Jl (MCV); Syracuse, *Blkm* (Hine); Ithaca, Je (Joh); Albany, Je; White Plains, Jl (Bks); **LI:** Richmond Hill, Jl (Jn); Flatbush, *Schott* (Beq).

EUMETOPIELLA Hendel

E. rufipes Macq. Erie Co, Je–Sep (MCV); Ithaca, May–Aug (Jn, CnJr); Mosholu, Je (Hendel); **SI** (Sturt).

FAMILY TRYPETIDAE

STRAUSSIA Robineau-Desvoidy

S. longipennis Wied. Potsdam; Newport; Niagara Falls, Je, Jl; Rochester, May; Erie Co, Portage (MCV); Ithaca; Manlius; Albany; **LI:** Maspeth, *Eng*; Flatbush, Queens (Beq).

S. longipennis var. **cornigera** Wlk. (*longitudinalis* Lw.). Wells, Jl, *Yg* (Leon); Erie Co, Je, Jl, Portage, Jl (MCV); Ithaca, Je–Jl (CnJr); Sacandaga Pk. (VTPhillips); Sharon Sps.; Albany, Je (Leon).

S. longipennis var. **trimaculata** Macq. (*typica* Lw.). Potsdam (VTPhillips); Tompkins Co, including Ithaca, Jl (CnJr).

S. longipennis var. **perfecta** Lw. Ithaca, Jl (VTPhillips).

S. longipennis var. **intermedia** Lw. Ithaca, Je (VTPhillips).

ZONOSEMA Loew

(*Spilographa* Loew, in part)

Z. electa Say. "NY".

Z. flavonotata Macq. (*basiolum* O. S.). Ithaca, Jl (CnJr).

ACIDIA Robineau-Desvoidy

A. fratria Lw. Tompkins Co.

EPOCHRA Loew

E. canadensis Lw. Ausable Forks, May; Camden.

ACIURA Robineau-Desvoidy

A. nigricornis Doane. Axton, Je (M&H); McLean, May (VTPhillips).

STENOPA Loew

S. vulnerata Lw. Protection, Sep (MCV).

RHAGOLETIS Loew

R. cingulata Lw. WHITE-BANDED CHERRY FLY. Common and frequently injurious wherever cherries are grown in the State.

R. fausta O.S. DARK-BODIED CHERRY FLY. Common and frequently injurious wherever cherries are grown in the State.

R. juniperina Marcovitch. Ithaca, Aug, reared from juniper berries.

R. pomonella Walsh. APPLE MAGGOT. Common and frequently injurious wherever apples are grown in the State. Jl–Oct.

R. suavis Lw. Ithaca, Aug, *JMStedman* (CnJr); Schuylerville, Sep (NYS); Middleburg; White Plains, Aug–Sep.

R. tabellaria Fitch. "NY" (Fitch); Hamburg, Je (MCV).

PROCECIDOCHARES Hendel

(*Oedaspis* Loew, in part)

P. atra Lw. Erie Co, Je, Rock Glen, Jl; Ithaca, Je–Jl, *Joh* (VTP); Poughkeepsie, Je; Matteawan, Sep; White Plains (Beq); **SI** (Beq); **LI:** Maspeth (Beq).

P. penelope O.S. Manlius.

P. polita Lw. Keene Val., Aug (NYS); Ithaca, Aug; vic. NYC.

TERELLIA Robineau-Desvoidy

(*Trypeta* Loew not Meigen)

T. florescentiae L. (*ruficauda* Fab.). Essex Co; Bolton; Honeoye Falls, Jl (Leon); Buffalo, Je; Tonawanda, Jl (MCV); Otto, Jl, Aug; Lancaster, Je; Ithaca, Je, Jl, Nov (CnJr); Albany.

NEASPILOTA Osten Sacken

(*Aspilota* Loew)

N. alba Lw. Ithaca (CnJr).

XANTHOMYIA Phillips

(*Tephritis* auct., in part)

X. platyptera Lw. Johnstown, Je (NYS); Erie Co, May–Je; Albany, May (NYS); Nassau, May (NYS); Red Hook, Je (Leon); Poughkeepsie, May (NYS); Ithaca, Aug; McLean, Aug (CnJr).

EUTRETA Loew

E. sparsa Wied. Saranac L., Aug; Fulton Co; Niagara Falls, Jl, Aug; E. Aurora, Jl (MCV); Ithaca; McLean Bogs, Aug (Phillips); Manlius; Albany; Hudson R. val.; Pine I., Ramapo, Sep (AM); Tomkins Cove, Sep (AM); **SI** (Sturt); **LI:** Hempstead; Flushing.

EUROSTA Loew

E. comma Wied. Keene Val. (Beq); Wilmington, Aug (Phillips); Karner, Aug–Sep (NYS); Albany; White Plains, Sep; Ithaca (CnJr); Nyack (AM); Inwood (Schott); NYC (Sturt); **SI,** Sep (Sturt); **LI:** Brooklyn (Beq).

E. conspurcata Doane. Johnstown, Je; Ithaca; Albany, Aug; Wappingers Falls, Je (Leon); **LI:** Babylon, May (Sturt).

E. elsa Daecke. Fulton Co, Aug; Ithaca, May, Sep (CnJr); White Plains (Beq); NYC (Sturt); **LI:** Brooklyn (Beq); Richmond Hill, Oct; Forest Hills (Phillips); Wyandanch (Schott).

E. reticulata Snow. Ft. Montgomery (Schott); Yonkers (Beq).

E. solidaginis Fitch. Speculator, Pike (NYS); Fulton Co; Geneva (Felt); Ithaca, Ap–May; Manlius; Hudson R. val.; Karner, including E. Schodack (NYS); Erie Co, May, Je (MCV); **LI:** Flushing.

ICTERICA Loew

I. circinata Lw. "NY".

I. seriata Lw. Irving, Aug (MCV); Ithaca; White Plains (Beq).

EUARESTA Loew

E. aequalis Lw. Erie Co, Jl–Aug (MCV); Ithaca, Jl–Aug (CnJr); Van Cort Pk. (Phillips); **SI,** Aug; **LI:** Flatbush, Canarsie (Beq).

E. angustipennis Lw. "NY" (Lw), type; Sacandaga Pk. (Phillips).

E. bella Lw. Peru, Je, *Cy* (Phillips); Wilmington, Aug (Phillips); Mt. Whiteface, Aug (Phillips); Elizabethtown, Aug (NYS); L. Placid, Aug, *EPV* (NYS); Manlius; Honeoye Falls, Je (Leon); Clyde, Sep, *Bish*; Erie Co, Je–Aug (MCV); Westfield, Jl (NYS); Spring Lake, *Cy* (Phillips); Ithaca, Varna, McLean (Phillips); Albany; Karner, Jl (NYS); Clifton Sps., Aug (Phillips); Middletown, *ChasSpooner* (Phillips); Salem, Aug (NYS); Germantown, Jl (NYS); Carmel, Aug (AM); Phoenicia, Aug, *EPV* (NYS); Rhinebeck, *Cy* (Phillips); Port Chester, Jl (NYS); Mosholu, Jl–Aug; **LI:** Flatbush, Je, *Zab* (AM).

E. festiva Lw. L. Pleasant, Jl (NYS); Buffalo, Aug; Irving, Aug (MCV); Ithaca, Sep; Middleburg, Jl (NYS); **LI:** Flushing.

E. pura Lw. Woodward L., Sep (Phillips); Ithaca, Jl (CnJr).

TRYPANEA Schrank

T. abstersa Lw. Honeoye Falls, Je, *Leon* (VTP).

T. dacetoptera Phillips. Rock City, Karner, Hillside Pt., Sep (VTP).

T. daphne Wied. (*solaris* Lw.). Oswego, Je.

TEPHRITIS Latreille

T. albiceps Lw. Axton, Je, *M&H*; Adirondacks, May; Mt. Whiteface, Aug (Phillips); Speculator, L. Pleasant, L. Placid, Chazy L., Newport, May–Jl (NYS); Spring Lake, Jl (Phillips); Caroline to Harford, Je (CnJr); McLean, Je–Jl, *Sib* (Joh, CnJr); McLean Bogs, Aug (Phillips); Freeville, Jl (CnJr); Albany, Aug.

T. euryptera Lw. West Pt.

FAMILY MICROPEZIDAE

TAENIAPTERA Macquart

T. antennaepes Say. Niagara Falls, Je (Jn); Erie Co, Je–Aug (MCV); Chautauqua L., Je (MCV); Potsdam, Jl, Ithaca, Jl (CnJr); Albany, Je; Ft. Montgomery, *Schott* (Beq); White Plains, Jl (Bks); **LI:** Flatbush, *Eng* (Beq); Pennequid Barrens (Beq).

T. bruneipes Cr. Ithaca, McLean, Jl, Oswego (CnJr).

T. divaricata Cr. **LI:** Brooklyn, Jl, *Eng* (Beq).

CALOBATA Meigen

C. nasoni Cress. Ithaca, May (CnJr).

C. pallipes Say (*alesia* Wlk.). McLean, May, Dryden L., Tompkins Co, May, Je (CnJr); White Plains, May, *Bno* (Bks); Johnstown, Je; W. Winfield, Je (Leon-NYS); Erie Co, Je (MCV); Cayuga L. (OS).

C. univitta Wlk. Erie Co, May–Jl (MCV); Ithaca, May, Je, Jl (Sturt); Amity, Je; NYC, May (Sturt).

TANYPEZA Fallén

T. luteipennis Knab & Snn. (*longimana* auct. not Hal.). Oswego, Jl (type); Dayton, Jl; Jamestown, Je; Niagara Falls, Je (Jn).

T. picticornis Knab. West Nyack (Beq).

FAMILY SEPSIDAE

SEPSIS Fallén

S. cynipsea L. Buffalo, Lancaster, Mar–Ap, in greenhouse (MCV).

S. neocynipsea Mel. Buffalo, Mar; Manlius, Aug (Joh); McLean, Jl, *Sib*; Ithaca, Ap (CnJr).

S. pectoralis Macq. Ithaca, Jl, Aug; Manlius, Aug (Joh); **LI**: Cold Sp. Harb. (Mel).

S. signifera Mel. Alexandria Bay, Sep; Manlius, Aug (Joh); Ithaca, May–Jl; **LI**: Cold Sp. Harb. (Mel).

S. signifera var. **curvitibia** Mel. McLean, Jl, *Sib* (Joh); Ithaca; **LI**: Cold Sp. Harb. (Mel).

S. vicaria Wlk. Manlius, Aug (Joh); Ithaca, Je.

S. violacea Meig. Speculator; Erie Co, May–Oct (MCV); Geneva, Jl, Aug; Ithaca, Je–Sep (Joh); Johnstown (NYS); Kingston; Southfields, *Schott* (Beq); W. Nyack (Beq); Bear Mt., Je (Sturt); **LI**: Cold Sp. Harb. (Mel).

S. violacea Meig. var. **similis** Macq. Ithaca, May–Aug (CnJr).

S. violacea Meig. var. **hecata** M. & S. Ithaca, Ap, Je (CnJr).

MEROPLIUS Rondani

M. stercorarius Desv. Ithaca, Jl (CnJr); **SI**, Je (Sturt); **LI**: Cold Sp. Harb. (Mel).

NEMOPODA Robineau-Desvoidy

N. cylindrica Fab. Ausable; Manlius, May–Jl (Joh); Geneva; Niagara Falls (Mel); Erie Co, May–Jl (MCV); Fulton Co; Ithaca; W. Nyack (Beq); NYC, Sep (Sturt); **LI** (Mel).

THEMIRA Robineau-Desvoidy

T. flavicoxa Mel. **LI**: Cold Sp. Harb. (Mel).

T. incisurata M. & S. var. **latitarsata** M. & S. Beaver Kill, Aug (CnJr).

T. minor Hal. McLean, Jl, *Sib* (Joh); **LI** (Mel).

T. putris L. Newport; Manlius; N. Evans, Jl (MCV); Buffalo, Jl (MCV); Ithaca and vic., May–Aug (Joh); Albany.

SALTELLA Robineau-Desvoidy

S. scutellaris Fall. E. Aurora, etc.; Erie Co, May, Je (MCV); Geneva (Mel); Hamburg, Je (Jn); Ithaca; NYC, May (Sturt); **LI:** Cold Sp. Harb.

S. scutellaris var. **ruficoxa** Macq. Hamburg, Je 20 (MCV); Ithaca, May, Je (CnJr).

FAMILY PIOPHILIDAE

PROCHYLIZA Walker

P. xanthostoma Wlk. Hamburg, Ap (MCV); Ithaca, Ap (Joh); NYC, Oct (Sturt).

PIOPHILA Fallén

P. casei L. CHEESE SKIPPER. General, infesting cheese and other stored food products.

P. nigriceps Meig. Ithaca, May (CnJr); **LI:** Cold Sp. Harb. (Mel).

P. oriens Mel. & Spuler. Ithaca; Geneva (Mel).

P. privigna Mel. (*pusilla* auct. not Meig.). Ithaca, May; **LI:** Cold Sp. Harb. (Mel).

FAMILY PSILIDAE

LOXOCERA Meigen

L. collaris Lw. Erie Co, Je–Aug (MCV); Ithaca, Jl (Jn); Poughkeepsie, Je.

L. cylindrica Say. Blue Mt., Dug Mt. (Yg); Wells (Yg); Oswego, Jl (Coq); Erie Co, Je–Aug (MCV); Hamburg, Jl (Jn); Ithaca (CnJr); Poughkeepsie, Je (Yg).

L. cylindrica var. **obsoleta** Jn. Erie Co, Aug–Sep (MCV); **LI:** Cold Sp. Harb. (Beq).

L. cylindrica var. **pectoralis** Lw. Speculator, Aug (Yg); Ft. Montgomery, *Schott* (Beq).

L. cylindrica var. **pleuritica** Lw. Erie Co, Jl–Sep (MCV); Olean, Aug (MCV); Ithaca and vic., Je–Aug (CnJr); Beaver Kill, Aug (CnJr-ANSP).

PSEUDOPSILA Johnson

P. angustata Cress. Lancaster, Sep 2 (MCV); Ithaca, Aug (CnJr).

P. bivittata Lw. Fulton Co, Je, Aug (Jn); Freeville, Jl (CnJr).

P. collaris Lw. Speculator, Je (Yg); Sport I., Sacandaga R., Ap (Alex); Erie Co, May–Je (MCV); Albany, Je, Poughkeepsie, Je, *Yg*; NYC, May (Sturt); **SI** (Sturt); **LI:** Cold Sp. Harb., May (Sturt).

P. fallax Lw. Axton, Je (Joh); Wilmington; Round I., Sep (CnJr); Speculator, Aug, *Yg*; Kaaterskill, Aug (Jn).

P. perpolita Johns. Colden, Je (MCV).

PSILA Meigen

P. frontalis Coq. Fulton Co, Je; McLean, Aug–Sep, *Sib* (Joh).

P. lateralis Lw. Niagara Falls, Je (Jn); Ithaca, Aug; NYC, May (Sturt).

P. rosae Fab. CARROT RUST-FLY. Broadalbin, Dec; Williamson, Je; Irondequoit; Lima; S. Lima; Niagara Falls; Wellsville; Erie Co, May–Je (MCV); Ithaca, Je (Joh).

P. sternalis Lw. Erie Co, Je–Aug (MCV); Caroline, Je (CnJr); Ithaca, Je.

CHYLIZA Fallén

C. apicalis Lw. Albany, Aug.

C. notata Lw. Speculator, Jl, *Yg*; Rock City, Je; Ithaca, May–Je (Joh); Coy Glen, Ithaca, May.

STRONGYLOPHTHALMYIA Heller

S. angustipennis Mel. Wilmington, Aug (Snn).

FAMILY DIOPSIDAE

SPHYRACEPHALA Say

S. brevicornis Say. Wells, Jl (Yg); S. Wales, etc., Jl–Aug (MCV); Erie Co; Ithaca, Je–Aug, Nov (Joh); Manlius; Johnstown, Sep (Yg); Saratoga Co; Hague, Aug (Leon); Nassau L., Sep (Leon); **SI,** Richmond, May (Bs).

FAMILY EPHYDRIDAE [106]

SUBFAMILY GYMNOPINAE

GYMNOPA Fallén

G. tibialis Cress. **LI:** Cold Sp. Harb., Oak I., Sea Cliff, *Bks.*

ATHYROGLOSSA Loew

A. glabra Meig. Ithaca, May; Beaver Kill, Aug.

A. ordinata Beck. Beaver Kill, Aug, *CnJr.*

OCHTHEROIDEA Williston

O. glaphryopus Lw. **LI:** Cold Sp. Harb., Aug.

O. granulosa Cress. Norton's Landing, Cayuga L., Je, *HHSmith.*

CLANONEURUM Becker

C. cimiciformis Hal. **LI:** Gardiners I. (Beq).

SUBFAMILY PSILOPINAE

PSILOPA Fallén

P. atrimanus Lw. NYC, Sep (Sturt); Ithaca, Aug (CnJr).

P. flavida Coq. NYC, Sep (Sturt).

P. fulvipennis Hine. NYC, Sep (Sturt).

P. leucostoma Meig. Ithaca, Ap.

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[106] The list for this family has been checked by E. T. Cresson, Jr., and most determinations, unless otherwise indicated, should be credited to him.

TRIMERINA Macquart

T. madizans Fall. Albany, May; Beaver Kill; Ithaca, Je (CnJr).

RHYSOPHORA Cresson

R. robusta Cress. W. Nyack, Je (Beq).

DITRICHOPHORA Cresson

D. exigua Cress. Ithaca, May; Sport I., Sacandaga R.; Rensselaer, May.

DISCOCERINA Macquart

D. obscura Will. **LI:** Cold Sp. Harb.

D. obscurella Fall. Niagara Falls, Je; Ithaca, May–Aug; Mud Cr., Tompkins Co, Je; Beaver Kill, Aug; Bear Mt., Je (Sturt); Van Cort. Pk., Je; **LI:** Cold Sp. Harb., Je–Aug; Babylon, May (Sturt).

D. parva Lw. Mud Cr., Je; Ithaca, Aug; Van Cort. Pk., Jl.

DICLASIOPA Hendel

D. xanthocera Lw. **SI,** Oct (Sturt).

POLYTHICHOPHORA Cresson

P. conciliata Cress. **LI:** Cold Sp. Harb., Jl, Sheepshead Bay, Je, *Yg.*

P. orbitalis Lw. Beaver Kill, Aug, *CnJr*; **LI:** Cold Sp. Harb., Je (CnJr).

SUBFAMILY NOTIPHILINAE

PHILYGRIA Stenhammar

P. debilis Lw. Wells, Jl, *Yg*; Geneva, May; Ithaca, May; Albany, May, *Yg*; Mt. Whiteface, Aug; **LI:** Cold Sp. Harb., Aug (Claas).

P. fuscicornis Lw. **SI,** Je, Oct (Sturt).

P. opposita Lw. Wilmington, Aug; Buffalo, Je; Chipmunk Swamp, Vandalia, Je; Caroline, Je; Ithaca, Jl; Freeville, Jl; Mud Cr., Tompkins Co, Je; Albany, Je; NYC, Mar (Sturt); **LI:** Cold Sp. Harb., Aug (Sturt).

PHILYGRIOLA Hendel

P. picta Fall. Wells, Je, *Yg.*

HYDRELLIA Robineau-Desvoidy

H. cruralis Coq. Grand I., Oct, *MCV.*

H. formosa Lw. Ithaca; NYC, Oct (Sturt); **LI:** Cold Sp. Harb., Je–Aug.

H. hypoleuca Lw. E. Aurora, Aug; Colden, Aug; Grand I., Oct; Ithaca, Jl; **LI:** Ridgewood, Je.

H. ischiaca Lw. Ithaca, Aug.

H. obscuripes Lw. Hamburg, Aug, *MCV*; Ithaca; Beaver Kill, Aug, *CnJr*; **LI:** Cold Sp. Harb., Aug.

H. scapularis Lw. Saranac Inn, Jl; Ithaca, May; **LI:** Cold Sp. Harb., Sheepshead Bay, Je–Aug.

H. tibialis Cress. **SI,** Oct (Sturt).

H. valida Lw. **LI:** Cold Sp. Harb., Je.

ILYTHEA Haliday

I. spilota Cut. Beaver Kill, Aug, *CnJr*; Ithaca, Jl.

PARALIMNA Loew

P. appendiculata Lw. Ithaca (CnJr).

NOTIPHILA Fallén

N. bispinosa Cress. **LI:** Cold Sp. Harb. (Beq).

N. loewi Cress. Franklinton, Je, *Leon.*

N. olivacea Cress. Ithaca.

N. riparia Meig. Ithaca.

N. scalaris Lw. L. Tear (Beq); Niagara Falls, Je (MCV); Colden, Je (MCV); Ithaca, and several other Tompkins Co localities, Je–Jl; Beaver Kill, Aug; Gowanda, Je (MCV).

DICHAETA Meigen

D. caudata Fall. Ithaca, Ap–May; Albany, May, *Yg*; Karner, Ap, *Yg.*

TYPOPSILOPA Cresson

T. atra Lw. Ithaca, Je, Jl (CnJr).

SUBFAMILY EPHYDRINAE

PELINA Haliday

P. brevis Wlk. Niagara Falls, Je, *MCV.*

P. truncatula Lw. Buffalo, Oct, *MCV* (Jn).

LYTOGASTER Becker

L. gravida Lw. Ithaca, Aug (CnJr).

HYADINA Haliday

H. albovenosa Coq. NYC, Mar (Sturt).

NAPAEA Robineau-Desvoidy

N. vanduzeei Cress. E. Aurora, Jl 27, *MCV.*

PARYDRA Stenhammar

P. bituberculata Lw. Manlius; Ithaca, Je–Jl, Sep; Voorheesville, Jl, *Leon*.
P. breviceps Lw. Erie Co, Jl–Aug (MCV); Beaver Kill, Aug.
P. imitans Lw. **LI:** Cold Sp. Harb., Jl.
P. paullula Lw. **LI:** Cold Sp. Harb., Aug.
P. pinguis Wlk. Niagara Falls, Je, *MCV*.
P. quadrituberculata Lw. Buffalo, E. Aurora, Hamburg, Lancaster, Je–Aug, *MCV*.
P. unituberculata Lw. **LI:** Cold Sp. Harb., Aug.

OCHTHERA Latreille

O. mantis DeG. Wilmington Notch, Je, *Leon*; L. Tear (Beq); Saranac Inn, Jl; Manlius; Erie Co, May–Aug, *MCV*; Johnstown, Sep; Poughkeepsie, Je; White Plains, Aug; **LI:** Cold Sp. Harb. (Beq).

BRACHYDEUTERA Loew

B. argentata Wlk. (*dimidiata* Lw.). Ithaca, Jl (Joh).

EPHYDRA Fallén

E. subopaca Lw. Syracuse, May; Ithaca, May–Oct (Joh); **LI:** Sheepshead Bay, Je.
E. atrovirens Lw. Ithaca (CnJr).

CIRRULA Cresson

C. gigantea Cress. **LI:** Sheepshead Bay, Aug, *Yg*.

CAENIA Robineau-Desvoidy

C. bisetosa Coq. Niagara Falls, Aug, Oct (CnJr).

DIMECAENIA Cresson

D. spinosa Lw. (*Caenia*). **SI,** Oct (Sturt); **LI:** Cold Sp. Harb., Gardiners I. (Beq).

SCATELLA Robineau-Desvoidy

S. lugens Lw. Adams Center, May, *Claas* (Joh); Ithaca, Aug (CnJr); McLean, Je, *Sib* (Joh); Albany, Je; Rensselaer, May; Pawling, May; W. Nyack (Beq); **LI:** Sheepshead Bay, Je, *Yg*.
S. stagnalis Fall. Speculator, Aug, *Yg*; Broadalbin, Je, *Yg*; Ithaca, Aug (CnJr); Erie Co, May–Oct, *MCV*; Albany, Ap–May; Rensselaer, May–Je; Syracuse, *Blkm*; **LI:** Sheepshead Bay, Je, *Yg*.
S. quadrinotata Cress. Erie Co, Aug, Oct, *MCV*.

SCATOPHILA Becker

S. despecta Hal. (*variabilis* Cress.). NYC, Mar (Sturt).

FAMILY **CHLOROPIDAE**

MEROMYZA Meigen

M. americana Fitch. Speculator; Axton; Ithaca; Scipioville; Albany; Karner, May–Jl.

EPICHLOROPUS Becker

E. sp. Cayuga L., Jl (Ald).

CHLOROPISCA Loew

C. glabra Meig. (*assimilis* Macq.). Johnstown, Je; Ithaca, May, Jl, Sep; Albany, Je; **LI:** Babylon, May (Sturt).

C. grata Lw. Beaver Kill, Aug, *CnJr*; **LI:** Rosedale, *Schott.*

C. rufescens Coq. Rhinebeck, Jl, *Cy* (Ald); **SI** (Beq).

C. variceps Lw. (*prolifica* O.S.). Ausable Forks, Ap–Aug; Elizabethtown, Aug; Fulton Co; Alfred Center; Karner, Mar; Ithaca, Aug–Sep (Ald).

DIPLOTOXA Loew

D. microcera Lw. McLean, Aug, *Sib* (Joh).

D. recurva Adams. Saranac L., Aug (Ald).

D. versicolor Lw. Ithaca, Jl (Joh); Beaver Kill, Aug, *CnJr*; L. Tear (Beq).

LASIOSINA Becker

L. canadensis Ald. Saranac L. (Ald).

ANTHRACOPHAGA Loew

A. sanguinolenta Lw. McLean, May (Ald).

CHLOROPS Meigen

C. antennalis Fitch. "NY".

C. certima Adams. Adirondacks (Ald); Sport I., Sacandaga R. (Alex).

C. hortensis Fitch. "NY". Not recognized (Beq).

C. liturata Adams. Albany, May.

C. melanocera Lw. Johnstown, Je; Niagara Falls, Je.

C. obscuricornis Lw. McLean, Je, *Sib*; L. Tear (Beq); **LI:** Huntington, *Schott.*

C. producta Lw. Eddyville, Jl, *FrostSW* (Ald); Ithaca, Je–Jl, *Sib.*

C. proxima Say. Ithaca, Je, *And* (Ald).

C. scabra Coq. Oswego.

C. tarsalis Becker. Ithaca, Je (Ald).

PARECTECEPHALA Becker

P. eucera Lw. Speculator, Aug; L. Placid, Je; Greene Co, *How* (Ald); Bear Mt. (Sturt); **LI:** Oyster Bay.

PSEUDOGAURAX Malloch

P. anchora Lw. Ithaca, May; NYC (Sturt).

EUGAURAX Malloch

E. floridensis Mall. "NY".

GAURAX Loew

G. dorsalis Lw. "NY".

CRASSISETA von Roser

C. aliena Becker. Adirondacks, *Alex* (Ald).
C. costata Lw. Speculator, Jl (NYS); Ithaca, May (Ald); Albany, May; NYC, Oct (Sturt); **SI**, Oct (Sturt).
C. nigriceps Lw. McLean, Je; Albany, May.

MELANOCHAETA Bezzi

M. (Doliomyia) longiventris Joh. Ithaca, Ap (Joh).
M. longula Lw. Saranac L., Aug (Ald); Schodack, Mar, NYC, Oct (Sturt); **SI**, Oct (Sturt).

HIPPELATES Loew

H. flavipes Lw. "NY".
H. nitidifrons Mall. Ithaca, Oct (Sturt); NYC, Sep (Sturt); **LI**: Cold Sp. Harb., May (Sturt).
H. nobilis Lw. Ft. Montgomery, *Schott.*
H. plebejus Lw. Ithaca, May (Ald).
H. subvittatus Mall. **LI**: Babylon, May (Sturt).

MADIZA Fallén

(*Siphonella* Macquart)

M. cinerea Lw. Saranac L., Aug (Ald).
M. finalis Becker. Ithaca, Nov (Ald). Reared from decaying iris roots.

NOTONAULAX Becker

N. cincta Meig. Ithaca, Sep (Ald).

BOTANOBIA Lioy

(*Oscinis* auct.; *Oscinosoma* Lioy; *Oscinella* Becker)

B. anthracina Mg. McLean, Jl (Sib).
B. coxendix Fitch. Adirondacks, Aug; Greene Co, *How* (Ald); Ithaca, Ap, Oct (Ald); **SI**, Oct (Sturt).
B. coxendix var. **obscura** Coq. McLean, Aug.
B. dorsata Lw. (*dorsalis* Lw. 1869, not 1863). Ithaca, *FrostSW* (Ald).

B. frit L. Ithaca, May–Aug (Ald).
B. incerta Becker. McLean, Jl.
B. nitidissima Meig. (*variabilis* Lw.). McLean, May.
B. soror Macq. "NY".
B. tibialis Fitch. "NY".
B. umbrosa Lw. "NY".

FAMILY DROSOPHILIDAE [107]

AMIOTA Loew

(*Phortica* Schiner)

A. humeralis Lw. Wells, Jl, *Yg* (Sturt); Axton, Jl; Niagara Falls (Jn); Ithaca, Je, Jl (Joh); **SI**, Jl (Sturt); **LI**: Wyandanch, *Schott* (Beq).
A. leucostoma Lw. Wells, Jl, *Yg* (Sturt); Ithaca, Je–Aug (CnJr); **SI** (Sturt).
A. minor Mall. **SI**, Je (Sturt).

STEGANA Meigen

S. coleoptrata Scop. Wells, Jl, *Yg* (Sturt); S. Wales, Jl (MCV); Cranberry Cr., Je (Sturt); Albany, May, *Yg* (Sturt); Ithaca (Joh), as *vittata* Coq; NYC, May (Sturt).

CLASTOPTEROMYIA Malloch

C. inversa Wlk. Ithaca (Sturt); NYC, Sep–Oct (Sturt).

MYCODROSOPHILA Oldenberg

M. dimidiata Lw. Ithaca (CnJr); **SI** (Sturt).

CHYMOMYZA Czerny

C. amoena Lw. Speculator, Wells, Jl–Aug, *Yg* (Sturt); Erie Co, Ap–Sep (MCV); Tompkins Co, May–Oct (Sturt); Karner, Aug (Sturt), and vic., May–Nov; Albany; Montgomery, Jl; NYC, Je–Oct (Sturt); **SI**, Oct (Sturt); **LI**: Cold Sp. Harb. (Sturt).
C. procnemis Will. Albany, Jl (Sturt); NYC (Sturt).

LEUCOPHENGA Mik

L. maculosa Coq. NYC, Oct–Nov (Sturt); **LI**: Flatbush (Sturt).
L. varia Wlk. NYC, Sep (Sturt).

DROSOPHILA Fallén

D. affinis Sturt. Wells, Jl, *Yg* (Sturt); Niagara Falls (Jn); Ithaca, *FrostSW*; Albany, Je (Sturt); NYC, Je, Oct (Sturt); **SI** (Sturt).
D. busckii Coq. Ithaca, Nov 3 (Joh); Kingston, Nov; NYC, Je, Nov (Sturt).
D. colorata Wlk. (*sulcata* Sturt.). Wells, Jl, *Yg* (Sturt); Ithaca, May, *Snn* (Sturt).

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[107] Dr. A. H. Sturtevant has looked over the list for this family and has supplied many records.

D. flaveola Meig. Buffalo, N. Evans, Je–Oct (MCV).

D. funebris Fab. Niagara Falls, Je (Jn); Buffalo, Ap, Nov (MCV); Ithaca, Aug, Sep (Sturt); Nassau, Jl; Tarrytown; Nyack, *Zab* (Sturt); NYC, Je (Sturt); West Sand L., Oct, Nov (Sturt).

D. hydei Sturt. Albany, Oct (Sturt).

D. immigrans Sturt. (*tripunctata* Sturt.). Ithaca; White Plains (Sturt); NYC, Oct (Sturt); **SI; LI:** Cold Sp. Harb. (Sturt).

D. melanica Sturt. NYC (Sturt).

D. melanogaster Meig. (*ampelophila* Lw.). Common throughout the State all the year (Sturt).

D. ordinaria Coq. Erie Co, Je–Nov (MCV).

D. putrida Sturt. Speculator, Wells, Je, Jl, *Yg* (Sturt); Cranberry Cr., Je, *Yg* (Sturt); Niagara Falls (Jn); Ithaca, Ap, May; Ramapo, Mar (Sturt); Albany, May, *Yg* (Sturt); NYC (Sturt); **SI,** Je (Sturt); **LI:** Cold Sp. Harb. (Sturt).

D. quinaria Lw. Speculator, Wells, Je, Aug, *Yg* (Sturt); Erie Co, May, Oct (MCV); Ithaca, May, Aug (Sturt); McLean, May (Joh); Albany, May, Oct, *Yg* (Sturt); Karner, May (Sturt); W. Nyack, Je (Sturt); NYC, Aug (Sturt); Rye, larvae in burrows of *Papaipema* spp. (Bird).

D. repleta Woll. Buffalo, Oct (MCV); Ithaca, Nov 3 (Joh); Albany, Sep–Nov (Mall); Meadowdale (Sturt); NYC, throughout the year (Sturt); **LI:** Maspeth (Sturt).

D. robusta Sturt. Ithaca, Ap 3, May, Aug, *FrostSW* (Sturt); **SI** (Sturt); **LI:** Cold Sp. Harb. (Sturt).

D. sigmoides Lw. NYC, Oct, Nov (Sturt); **LI:** Cold Sp. Harb. (Sturt).

D. simulans Sturt. **SI** (Sturt); **LI:** Cold Sp. Harb. (Sturt).

D. sulcata Sturt. Ithaca, Ap, Jl (Cress).

D. transversa Fall. Cranberry Cr., Je, *Yg* (Sturt); Speculator, Wells, Jl, Aug, *Yg* (Sturt); Niagara Falls, Je (Jn); Ithaca, May (Sturt); Albany, Je (Sturt); **SI,** Je (Sturt); **LI:** Cold Sp. Harb. (Sturt).

D. virilis Sturt. NYC, Nov (Sturt).

SCAPTOMYZA Hardy

S. adusta Lw. Ithaca, Tarrytown, Florida, reared from leaves of various mustards, Jl, Aug, *FrostSW* (Sturt); Valley Falls, Aug, *Yg* (Sturt); NYC, Sep (Sturt); **SI,** Oct (Sturt); **LI:** Cold Sp. Harb. (Sturt).

S. graminum Fall. Wells, Jl, *Yg* (Sturt); Niagara Falls, Je (Jn); Buffalo, Sep, Oct (MCV); Ithaca, May–Sep (Sturt); Bear Mt., Je (Sturt); Albany, Mar–Nov (Sturt); **SI,** Oct (Sturt); **LI:** Cold Sp. Harb. (Sturt); New Baltimore, May (Sturt).

S. terminalis Lw. Albany, Sep, *Yg* (Sturt); Middletown, *Cy* (Sturt).

CURTONOTUM Macquart

C. helvum Lw. Ithaca, May (Joh); Mosholu, May (Bks); **LI:** Orient, *Zab* (Sturt); Long Beach, Pennequid Barrens (Beq).

AULACIGASTER Macquart

A. leucopeza Meig. Ithaca (Sturt).

FAMILY **ASTEIIDAE**

ASTEIA Meigen

A. beata Ald. Wells (Yg-NYS).

FAMILY **GEOMYZIDAE**

DIASTATA Meigen

D. nebulosa Fall. Speculator, Jl, *Yg*; Albany, Ap.
D. repleta Wlk. (*pulchra* Lw.). McLean, May, Jl (Joh).

ISCHNOMYIA Loew

I. albicosta Wlk. Erie Co, Je, Aug (MCV).
I. spinosa Hendel. Coy Glen, Ithaca, Je, *Leon* (Joh); McLean, Sep (Joh).

ANTHOMYZA Fallén

A. gracilis Fall. Wells, Jl (Joh); Slaterville (FrostSW).
A. tenuis Lw. "NY" (Lw).
A. variegata Lw. Buffalo, Je (MCV); McLean, Jl, *Sib* (Joh); Bear Mt., Je (Sturt).

MUMETOPIA Melander

M. occipitalis Mel. NYC, Oct (Sturt).
M. terminalis Lw. (*nitens* Mel.). Niagara Falls, Je 23 (Jn); Buffalo, Je (MCV); McLean, Je, *Sib* (Joh).

TETHINA Haliday

T. albula Lw. **LI:** Cold Sp. Harb., May (Sturt).
T. parvula Lw. (*Rhicnoessa whitmani* Mel.). **LI:** Rockaway Beach (Beq).

PELOMYIA Williston

P. mallochi Sturt. (*Tethina parvula* auct. not Lw.). **LI:** Cold Sp. Harb., May (Sturt).

CHIROMYIA Robineau-Desvoidy

(*Scyphella* Robineau-Desvoidy)

C. flava L. Erie Co, Je–Aug (MCV).

FAMILY **MILICHIIDAE**

PHOLEOMYIA Bilimek

P. indecora Lw. (*Rhynchomilichia* Hendel). "NY", Je, *Bs* (Mall); Ithaca (Joh).

MILICHIELLA Giglio-Tos

M. arcuata Lw. **LI** (Mel).
M. lacteipennis Lw. **SI**, May (Sturt); Syracuse, *Blkm* (Hine).

EUSIPHONA Coquillett

E. mira Coq. Rochester Jct., *Leon*; **SI:** Richmond (Beq).

PHYLLOMYZA Fallén

P. securicornis Fall. Ithaca, Jl (Joh).

DESMOMETOPA Loew

D. latipes Meig. New Baltimore, May 12 (Yg); Ithaca, Feb (Joh); NYC, Mar, Oct (Sturt).

D. m-nigrum Zett. NYC, Mar (Sturt).

MALLOCHIELLA Melander

M. glabra Fall. Geneva, *Parr* (Joh); Ithaca, May–Oct (Joh, Mall).

M. halteralis Coq. Erie Co, May–Oct (MCV); NYC, Mar, Oct (Sturt); **SI** (Sturt).

MEONEURA Rondani

M. vagans Fall. (*Agromyza tritici* Fitch). NYC, May (Sturt).

FAMILY OCHTHIPHILIDAE

OCHTHIPHILA Fallén

O. polystigma Meig. Erie Co, May–Aug (MCV); Niagara Falls, Je 22 (Jn); Ithaca, May; McLean, May, Jl, Sep (Joh); Honeoye Falls, *Leon*; Beaver Kill, Aug (CnJr); NYC, Sep (Sturt); **SI** (Sturt); **LI:** Cold Sp. Harb., May (Sturt).

O. juncorum Fall. McLean, Ithaca (FrostSW).

CHAMAEMYIA Panzer

C. elegans Panz. Dryden L., Tompkins Co, Je (Joh).

LEUCOPIS Meigen

L. bella Lw. "NY" (Lw).

L. nigricornis Egger. McLean.

L. simplex Lw. Nassau, Aug, *Yg* (Ald); Erie Co, May–Je (MCV).

LEUCOPOMYIA Malloch

L. pulvinaria Mall. Shushan, Jl (Mall).

FAMILY AGROMYZIDAE [108]

ODINIA Robineau-Desvoidy

O. maculata Meig. (*ornata* Zett.). **LI:** Westbury (Champlain).

[108] The list for this family has been checked by Dr. S. W. Frost, who has made certain changes in nomenclature and added a number of records.

TRAGINOPS Coquillett

T. irrorata Coq. Clinton Hgts., Je, *Yg*; NYC, May (Sturt).

AGROMYZA Fallén

A. aeneiventris Fall. (*plumipes* Mall.). Lancaster, May, Aug (MCV); Albany, May.

A. aeneiventris var. **cunctans** Meig. Ithaca, Je 15.

A. allecta Mel. Erie Co, Je, Aug, Sep (MCV); Sheldrake, Trumansburg, Tarrytown, reared from Arctium, Bidens, and Eupatorium (FrostSW); Peru.

A. angulata Lw. (*atra* Meig.?). Ithaca (FrostSW); McLean, Sep (Joh).

A. borealis Mall. Ithaca, Florida, reared from *Impatiens* spp. (FrostSW).

A. burgessi Mall. Lancaster, Je (MCV).

A. curvipalpis Zett. (*Ophiomyia* Brochikow) var. **texana** Mall. McLean; Ithaca, *FrostSW* (Mel); Trumansburg, Florida, reared from aster, goldenrod, and Eupatorium (FrostSW); Peru; Gloversville.

A. eupatoriae Mall. Ithaca (FrostSW).

A. felti Mall. Hudson Falls, Ithaca, May (Ald); Albany, May.

A. flavonigra Coq. NY (Mall).

A. fragariae Mall. Ithaca, Tarrytown, Florida, reared from Rubus (FrostSW).

A. laterella Zett. (*magnicornis* Lw., *grossicornis* Zett.). Ithaca, *Claas* (Joh); McLean; Beaver Kill, Aug (*CnJr*). In Johnson's *List of the Diptera of New England,* this species is listed as *A. morosa* Meig., with *luctuosa* Meig. and *laterella* Zett. as synonyms.

A. longicornis Lw. Niagara Falls, Jl (MCV).

A. longipennis Lw. "NY" (Lw).

A. n. sp. near **luctuosa** Meig. Ithaca, reared from *Cyperus acuminatus* (*FrostSW*).

A. maculosa Mall. **LI:** Jamaica, Oct (Mall).

A. marginata Lw. McLean, Jl, *Sib* (Joh).

A. maura Meig. Lewiston, Ithaca, **LI,** May (MCV).

A. maura var. **setifrons** Mel. Lancaster, May, Je (MCV); Ithaca (FrostSW).

A. maura var. **simplex** Lw. ASPARAGUS MINER. Ithaca (Joh); **LI.**

A. melampyga Lw. (*sorosis* Will., *flaviventris* Jn.). Niagara Falls, Ithaca, on Plantago and Philadelphus; Hudson Falls (Felt).

A. nasuta Mel. Ithaca, Slaterville, McLean, mining in stems of dandelion, Je (FrostSW); Peru.

A. parvicella Coq. Ithaca (FrostSW).

A. parvicornis Lw. (*dubitata* Mall.). Buffalo, Je; Lancaster, Aug *MCV* (Mall); Ithaca, on grasses (FrostSW).

A. platyptera Thomson var. **coronata** Lw. Niagara Falls, Je (Mall); Erie Co, May, Sep, Oct (MCV); Ithaca, reared from goldenrod, aster, and violet (FrostSW); Wilmington.

A. platyptera var. **jucunda** Wulp. Ithaca, reared chiefly from aster, goldenrod, and sunflower (FrostSW); McLean, Jl, Sep (Joh).

A. pusilla Meig. (*trifolii* Burgess, *brassicae*). SERPENTINE LEAF-MINER. Middletown, Aug (Cy); Warwick, Aug (CU); Beaver Kill, Aug (CnJr); Ithaca (FrostSW); Freeville. One of the commonest leaf-miners, reared from fifteen host plants in NYS (FrostSW).

A. posticata Meig. (?*virgaureae* Kalt., *terminalis* Coq., *taeniola* Coq.). Oswego, Jl, Niagara Falls, Je (Mall); Ithaca, common on goldenrod (FrostSW).

A. pruni Gross. "NY" (Mall).

A. n. sp. near **pruinosa** Coq. Waterville,, reared by I. M. Hawley from hop (FrostSW).

A. reptans Fall. var. **subnigripes** Mall. (*kincaidi* Mall., possibly also *nitida* Mall.). Ithaca, chiefly on Ambrosia, Urtica, and Helianthus (FrostSW).

A. setosa Lw. Ithaca, *Ndm* (Mel). Of doubtful occurrence in NY, most specimens probably being referable to either *maculosa* Mall. or *fragariae* Mall. (FrostSW).

A. salicis Mall. "NY" (Mall).

A. schineri Giraud. Rensselaer, May.

A. scutellata Fall. Lewiston, May; Erie Co, May (MCV).

A. subvirens Mall. Van Cort. Pk.; Ithaca (FrostSW).

A. superciliosa Zett. Buffalo, May (MCV).

A. ulmi Frost. Ithaca, Florida, mining leaves of American elm (FrostSW).

A. virens Lw. McLean, Sep, *Sib* (Joh); Ithaca (FrostSW).

A. waltoni Mall. Long L. (Mall).

A. youngi Mall. Albany, Ap, *Yg* (Mall).

CERODONTHA Rondani

(*Ceratomyza* Schiner; *Ceradonta* Rondani)

C. femoralis Meig. (*dorsalis* Lw.). Ithaca, Sep, Oct, miner on various grasses (FrostSW); **SI,** Oct (Sturt); **LI:** Cold Sp. Harb. (Sturt); North Fair Haven.

PHYTOMYZA Fallén

P. affinis Fall. Ithaca (FrostSW).

P. albiceps Meig. (*bipunctata* Lw.). Ithaca, Florida, rather common on aster and Symphoricarpos (FrostSW); McLean, Sep (FrostSW).

P. angelicella Frost. From mines on *Angelica atropurpurea,* Ithaca (FrostSW).

P. aquilegiae Hardy. THE COLUMBINE LEAF-MINER. Ithaca, Tarrytown (FrostSW); Schenectady, Je 14 (Yg).

P. auricornis Frost. Ithaca, Jn, *Dt* (FrostSW).

P. bicolor Coq. Niagara Falls (Coq); Hamburg, May 28 (MCV); Ithaca, May 30 (Mel).

P. chrysanthemi (*Napomyza*) Kow. THE CHRYSANTHEMUM LEAF-MINER. Ithaca (FrostSW); Albany, Feb, *Yg.*

P. ilicis Curt. (*ilicicola* Lw.). **LI:** Westbury, Ap 7 (Felt).

P. lactuca Frost. Ithaca, on wild lettuce (FrostSW).

P. loewii Hendel (*clematidis* Lw.). Lancaster, May (MCV); Beaver Kill, Aug (CnJr).

P. marginalis Frost. McLean, Freeville, Ithaca (FrostSW).

P. nitida Mel. Florida, Ithaca, White Plains, Tarrytown (FrostSW). A fairly common leaf-miner on Nepeta, Ambrosia, Tanacetum, and Thalictrum.

P. obscurella Fall. var. **nigritella** Zett. Ithaca, leaf-miner on peach (FrostSW).

P. plantaginis Desv. Ithaca, on *Plantago* spp. (FrostSW).

P. plumiseta Frost. Ithaca, Florida, on Thalictrum (FrostSW).

FAMILY HIPPOBOSCIDAE

ORNITHOICA Rondani

O. confluenta Say. Albany, Oct, *Bish,* on *Strix varia varia.*

ORNITHOMYIA Latreille

O. anchineura Speiser (*pallida* Say). Yankee L., Wurtsboro, Sullivan Co, Sep 8, on Maryland yellowthroat, *JPChapin* (Beq); **SI,** Sep 8, on Carolina wren, *JPChapin* (Beq); **LI:** Port Jefferson, Jl, *RCMurphy* (Beq), on *Toxostoma rufum.*

ORNITHOPONUS Aldrich

O. americanus Leach (*Olfersia*). Buffalo, Oct–Nov (MCV); Hammondsport, Nov; Baldwinsville, on *Bubo virginianus virginianus, AGWhitney* (Beq); Ithaca; Austerlitz, Oct, on *Bonasa umbellus* (Beq); Yankee L., Wurtsboro, Sullivan Co, Sep 6, on broad-winged hawk, *JPChapin*; **SI,** Nov 24 (Beq); **LI:** Freeport, Sep 13, on marsh hawk, *HThurston* (Beq); Orient Pt., May, Dec, *Schott* (Beq), on *Buteo borealis borealis.*

OLFERSIA Wiedemann

(*Pseudolfersia* Coquillett)

O. fumipennis Sahlb. (*maculata* Coq.). Clove Val., near Poughkeepsie, May 2, on fish hawk, *JBBird* (Bird). **SI,** May 20, Sep 1, on fish hawk, *JPChapin* (Beq)

MELOPHAGUS Latreille

M. ovinus L. NY (Fitch); Utica; Ballston Spa, Sep (NYS Rept., 15). On sheep.

ORDER SIPHONAPTERA

Compiled by M. A. STEWART

FAMILY PULICIDAE (*sens. lat.*)

ECHIDNOPHAGA Olliff

E. gallinaceus Westw. NYC (Fox), on rats.

PULEX Linnaeus

P. irritans L. Springfield; Schenectady (Felt); **LI:** Brooklyn, on man.

XENOPSYLLA Glink

X. cheopis Rothsch. NYC (Baker), on rats.

CTENOCEPHALUS Kolenati

C. canis Curtis. Schenectady (Felt); NYC (Fox), on rats.

C. felis Bouché. Ithaca, on a cat; **LI.**

SPILOPSYLLUS Baker

S. simplex Baker. Ithaca, on cottontail rabbit (*Sylvilagus floridanus mearnsi* Allen).

CTENOPHTHALMUS Kolenati

C. gigas Kby. Ithaca. On red squirrel (*Sciurus hudsonicus loquax* Bangs).

C. pseudagyrtes Baker. Selkirk; Alpine; Ithaca. On *Parascalops breweri, Fiber zibethicus zibethicus, Peromyscus leucopus,* and *Arvicola pennsylvanicus.*

C. wenmanni Rothsch. Ithaca. On *Peromyscus leucopus.*

TRICHOPSYLLA Kolenati

T. lotoris Stew. Olcott. On raccoon (*Procyon lotor lotor*).

CERATOPHYLLUS Curtis

C. acutus Baker. Ithaca.

C. arctomys Baker. McLean; Keeseville; Ithaca; Stamford. On woodchuck (*Arctomys monax* L.) and red squirrel (*Sciurus hudsonicus loquax*).

C. fasciatus Bosc. Ithaca. On rat and weasel (*Putorius noveboracensis*).

C. gallinae Schr. Perry.

C. leucopus Baker. Peterboro (Baker), on *Peromyscus leucopus.*

C. niger Fox. Ithaca. On bluebird (*Sialia sialis* L.).

C. pseudarctomys Baker. Ithaca. On flying squirrel (*Sciuropterus volans*).

C. riparius J. & R. Ithaca, Olcott. From nests of bank swallow (*Clivicola riparia*) and kingfisher (*Ceryle alcyon*).

C. vison Baker. Ithaca. On *Putorius noveboracensis.*

C. wickhami Baker. Ithaca, Halsey Valley. On red squirrel, gray squirrel (*Sciurus carolinensis leucotis*), Northern flying squirrel (*Sciuropterus volans*), and *Peromyscus leucopus.*

LEPTOPSYLLA Jordan and Rothschild

L. herperomys Baker. Ithaca, Alpine. From vacated kingfisher's nest, mouse nest, and *Peromyscus leucopus.*

L. musculi Dugès. NYC (Fox), on rats.

NEOPSYLLA Wagner

N. similis Chapin. Ithaca. From grass siftings.

N. striata Stew. Ithaca. From nest of chipmunk (*Tamias striatus*).

N. testor Rothsch. Lansingburg (Rothsch), from nest (of mouse?).

MYODOPSYLLA Jordan and Rothschild

M. insignis Rothsch. Homer; Ithaca. On *Myotis lucifugus* and *M. sublatus.*

ORDER HYMENOPTERA

Edited by J. CHESTER BRADLEY

The classification adopted for the order Hymenoptera is that devised by Messrs. Rohwer, Bequaert, and Bradley, and employed by Professor Comstock in his *Introduction to Entomology*. Departures from this classification are minor, and consist chiefly in the division of the families Argidae and Chalcididae into more than a single family each. Where the strict application of the rules of nomenclature have compelled us, we have used other names for certain groups than those employed in Professor Comstock's book, although it is to be hoped that a way may yet be found for the retention of those old and well-known names. In all such instances we have introduced both names, so that the student will not be misled or puzzled. One serious source of uncertainty exists concerning these old group names. Twelve years ago Messrs. Morice and Durrant published a study of an old and forgotten paper which has since come to be known as the "Erlangen List." It is expected that the International Commission on Nomenclature will rule as to whether this paper is to be allowed to affect our nomenclature. If so, numerous radical changes will occur, and all of these, or at least the most important, have been indicated in footnotes in the present list.

The present list may be looked upon as a fair representation of our knowledge of the hymenopterous fauna of the State, but as falling very far short of the actual fauna, particularly in certain groups. The sawflies, the gall-inhabiting cynipids, the Vespoidea, and the sphecoid wasps, probably list a large proportion of the species which actually occur here, but that can hardly be true of any of the parasitic groups.

The user of this list who wishes to discriminate between genera and species will encounter only one general manual.[109] In dealing with the sawflies, the vespoid and sphecoid wasps, the ants, and to a lesser extent the bees, this manual will be helpful, but it is not of much assistance in the parasitic groups. Where there exist recent revisionary papers, these have usually been referred to by footnote in connection with the appropriate group.

The list in each family that has not been credited to another compiler, has been compiled by the editor for the order, who, with an editor's prerogative, has modified the form of individual lists to conform to the general

[109] Guide to the insects of Connecticut. Part III. The Hymenoptera, or wasp-like insects, of Connecticut. By Henry Lorenz Viereck, with the collaboration of Alexander Dyer MacGillivray, Charles Thomas Brues, William Morton Wheeler, and Sievert Allen Rohwer. 1916. 824 p., 10 pl. (State of Conn., Public document No. 47. State Geological and Natural History Survey, Bulletin No. 22.)

plan, or has here and there added records or data of one sort or another, and who therefore must be held responsible if in so doing he has unintentionally introduced any error, or anything that would not meet the approval of each individual contributor.

SUBORDER CHALASTOGASTRA [110]

Compiled by S. A. ROHWER

FAMILY XYELIDAE

SUBFAMILY XYELINAE

XYELA Dalman

X. minor Nort. Ithaca, May (CU); Karner, Je (NYS).

SUBFAMILY MACROXYELINAE

MACROXYELA Kirby

M. aenea (Nort.). **SI** (Ds).
M. angulata (MacG). Axton, type.
M. distincta MacG. Ithaca, Ap 13–23, *JOMartin,* type (MacG-CU).
M. ferruginea (Say). Ithaca, Ap (MacG-CU).
M. infuscata (Nort.). Ithaca, Ap 28, 29, May 12, 1899 (CU).
M. obsoleta MacG. Ithaca, *JOMartin,* type.

PLEURONEURA Konow

P. bruneicornis Roh. Gloversville, Ap 30, 1907, *Alex,* type.
P. borealis Felt. L. Clear, types.

ODONTOPHYTES Konow

O. avingrata (Dyar). Ithaca, Ap 29, *Kngt* (Bdy-CU); **SI,** Je 1; **LI:** Bedford Pk., May 25 (Dyar); Bellport, types. Larva feeds on immature leaves of hickory and butternut, appearing only early in spring.

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[110] This list has been prepared from records obtained from specimens in the collection of the National Museum (US); from records sent by Dr. Leonard from the collections in Cornell University (CU) and New York State Museum (NYS); from records sent by Dr. Frison, taken from specimens in the MacGillivray Collection (MacG–Ill); from records forwarded by F. M. Schott (MacG–Schott); and from records taken from literature. I have not had an opportunity to study all the specimens from which the records were made. Those obtained from the collections of the National Museum are based, in the main, on identifications made by the writer. Nearly all of the other records are accepted as having been based on correct identifications, and are included with only the necessary nomenclatorial changes. The word "type" after a record does not necessarily mean "holotype," but is used in the sense of "one of the types." The systematic arrangement of the groups follows closely the classification proposed by the writer in 1911 (Proc. Ent. Soc. Wash., vol. 13, p. 215–226, 1911). It seems undesirable to make any radical changes from this arrangement in a list of this character. The list records 91 genera and 446 species and varieties from the State.

FAMILY PAMPHILIIDAE

ACANTHOLYDA A. Costa

(Subgenus **ACANTHOLYDA** A. Costa)

A. atripes (Cress.). Greenwood L., May 16 (MacG-Schott).
A. bicolorata (Nort.). "NY", type.
A. ferruginea Felt. Mt. Marcy, type.
A. marginiventris (Cress.). "NY", type; Ithaca, Ap–May (CU, MacG-Ill).
A. modesta MacG. **LI:** Wyandanch, type.

(Subgenus **ITYCORSIA** Konow)

A. albomarginata (Cress.). Ithaca, Ap 12–Aug 15 (CU).
A. angulata MacG. Axton, Je, type; Ithaca, Je, Aug (MacG-Ill).
A. brunniceps (Cress.). Ithaca, May 21, *PESmith* (CU).
A. luteomaculata (Cress.). Axton, Je (MacG-Ill); Ithaca, Je–Aug (MacG-Ill, CU).
A. maculiventris (Nort.). Ithaca, Ap 4 (MacG-Ill, CU); Karner, Je, 1901 (NYS).
A. ochrocera (Nort.). Plattsburg, Je (MacG-Ill); Ithaca, Je 21 (CU); Karner, Jl, 1901 (NYS).
A. zappei Roh. **LI:** Hicksville, Aug 24, 1916, *ABChamplain* (US).

CEPHALEIA Jurine

(Subgenus **CEPHALEIA** Jurine)

C. frontalis (Westw.). Ft. Montgomery, Aug 8 (MacG-Schott).
C. semidea (Cress.). Ithaca, May (US, CU), Jl (MacG-Ill). MacGillivray usually places this species in the subgenus Caenolyda, but I prefer to assign it to the subgenus Cephaleia (Roh).

NEUROTOMA Konow

(Subgenus **NEUROTOMA** Konow)

N. fasciata (Nort.). "NY" (Nort); Ithaca, May (MacG-Ill), Jl (CU). Larva feeds in webs on wild cherry.
N. inconspicua (Nort.). "NY" (Nort). Larva feeds in webs on plums.

PAMPHILIUS Latreille

(Subgenus **PAMPHILIUS** Latreille)

P. ocreatus (Say). Keene Val., Je 25, 1894, *Dyar* (US); Castile, *EABradley* (Bdy-CU); Ithaca, May 15–22 (CU); Poughkeepsie, May, 1903 (NYS). Larva feeds on hazel and has been recorded from Cornus by Yuasa.
P. perseae MacG. Ithaca, Je 15 (CU).
P. semicinctus Nort. Stuyvesant Falls, Ap 29 (CU).
P. unalatus MacG. Ithaca, type.

(Subgenus **ANOPLOLYDA** A. Costa)

P. excavatus (Nort.). "NY", *Dbl* (Kby 1882).

P. luteicornis (Nort.). "NY", *Dbl* (Kby 1882).

P. pallimaculus (Nort.). Plattsburg, Je 12–14, 1894, *Dyar* (US); Ithaca, May (MacG-Ill), Je 9–Jl 4 (MacG-CU).

P. perplexus (Cress.). Ithaca, Je 27 (CU); Caroline to Harford, Je 15, *MacG&Bdy* (CU); **LI:** Maspeth, Je 6, *Ols* (MacG-Schott).

P. quebecensis (Prov.). Oswego, Je (MacG-Ill); Ithaca, Je (MacG-Ill, CU).

P. rufocinctus (Cress.). Oswego (MacG-Ill); Taughannock Falls, May, *Crampton* (CU). MacGillivray assigns this species to the subgenus Pamphilius, but an examination of the type caused me to place it in the subgenus Anoplolyda (Roh).

P. scriptus (Say). Oswego, Je 9, 1896 (MacG-Ill); Ithaca, Je (MacG-Ill); Caroline to Harford (MacG-Ill, CU); Taughannock, Ap 15 (CU).

FAMILY **CEPHIDAE** [111]

ADIRUS Konow

A. trimaculatus (Say). "NY" (Nort); Slaterville (Bdy); Ithaca, Taughannock, Jl (Bdy-CU); **SI**, Jl (Bdy-Ds); **LI:** Brooklyn, Jl (Sf-BM); Yaphank, *Eng.*

JANUS Stephens

J. integer (Nort.). CURRANT-STEM GIRDLER. Childwold, Aug (Felt); Sodus, May (CU Econ); S. Byron, May (Lint-CU); Corning (Lint); Ithaca, Ap 12–Je 20 (Bdy-CU, MacG-Ill); Waverly, Oct (CU Econ); Ghent, Je (Lint); Troy (Felt).

J. abbreviatus (Say). Ithaca, Jl–Aug (Bdy-CU); Ellis to Slaterville, Je (Bdy-CU). Larva feeds in stems of willow and has been recorded also from poplar.

CEPHA Billberg

(*Trachelus* Jurine)

C. tabida (Fab.). BLACK GRAIN-STEM SAWFLY. Milo (DTRies); **LI:** Yaphank, May, *Eng* (Sf-BM). Larva feeds in stalks of wheat, rye, and barley, and perhaps also in certain grasses. Introduced from Europe.

CEPHUS Latreille [112]

C. pygmaeus (L.). WHEAT-STEM SAWFLY. Recorded from the following counties: Oswego, Onondaga, Wayne, Monroe, Orleans, Niagara, Genesee, Erie, Wyoming, Livingston, Ontario, Yates, Schuyler, Steuben, Chemung, Tompkins, Seneca, Cayuga, Westchester (DTRies&Cy). In addition it has been looked for but not found in Chautauqua, Tioga, Broome, Cortland, and Ulster Counties (DTRies&Cy). Larvae feed in stems of wheat, and infestation up to ninety per cent occurs (Ries, Journ. Agr. Research, 1926, **32**: 284). Introduced.

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[111] If the Erlangen List is accepted, this family name will have to be changed to *Astatidae,* and the genus Cephus Latreille will fall as a synonym of the genus Astatus Jurine (Panzer).

[112] This name will be supplanted by *Astatus,* if the Erlangen List is accepted.

FAMILY XIPHYDRIIDAE

XIPHYDRIA Latreille

X. attenuata Nort. Rochester Jct., Je, *Leon* (Roh-CU); Niagara Falls, Je (Roh-CU); Ithaca, Je–Aug (MacG-Ill); **LI:** North Beach, *Schott* (Sf-BM). Larva feeds in *Tilia americana.*

X. erythrogastra Ashm. Niagara Falls (Roh-CU); Lancaster (MCV-US); Ithaca, Je–Jl (Roh-CU); Larva feeds in *Carpinus caroliniana.*

X. maculata Say. Newport, Je, 1899; Castile, *EABradley* (Bdy-CU); Portageville, Je (Roh-CU); Utica, *Pergande* (US); Albany, Jl, 1909; Nassau, Jl, 1902 (NYS); Ft. Montgomery, Je (Schott); **LI:** Yaphank (Roh-CU). Larva feeds in Acer.

X. hicoriae Roh. Syracuse, *Blkm* (US); **LI:** Westbury, *Champlain* (US). Larva feeds in Hicoria.

X. mellipes Harr. (*provancheri* Cress.). Cranberry L., Je 9, 13, 16, 1909, *Drk* (US); Saranac Inn, Feb 11, 1901, *Drk* (US, NYS Col. For.); Rock City, Jl (Roh-CU); Ithaca, May–Je (US, CU); **LI:** Rockaway Beach, *Eng* (Sf-BM).

X. tibialis Say. Ithaca, Je 15 (Roh-CU).

X. walshii Westw. "NY", type locality. Perhaps a synonym of *X. mellipes* Harr.

FAMILY SIRICIDAE [113]

SUBFAMILY SIRICINAE

SIREX Linnaeus

(*Paururus* Konow)

S. edwardsii Brullé (*zonatus* Nort.). "NY" is one of the localities from which the types of *zonatus* Nort. were taken. Ithaca (MacG-Ill); **LI:** Brooklyn, Sep, *Eng* (BM); Rockaway Beach, Oct, *Eng* (BM).

S. juvencus L. race **cyaneus** Fab. "NY" (Nort). Mt. Whiteface, 2000–4000 ft., Aug 24 (Bdy-CU); Saranac L. (Ds).

S. nigricornis race **nigricornis** Fab. Ithaca (MacG-Ill), Oct 26, 1917 (Bdy-CU); Binghamton, *Franck* (Sf-BM).

UROCERUS Geoffroy

U. flavicornis Fab. Ithaca (Bdy-CU).

U. albicornis (Fab.). Cranberry L., Aug, 1915 (Bdy-CU); Brant L., Aug, *Doll* (Sf-BM); Carthage (Felt); Ithaca, Ap 15–Sep 3 (Bdy-CU); Watervliet, Sep 25 (Felt); West Pt., Je, *Sf* (BM); **SI** (Ds).

U. cressoni var. **cressoni** Nort. Adirondacks, Aug (MacG-Ill); Ithaca, Aug 22, *Joh* (Bdy-CU); Albany (Nort); White Plains, Aug, *Schott* (BM); **LI:** Prospect Pk., Jl (Sf-BM); Yaphank, Aug, *Eng* (BM).

U. cressoni var. **tricolor** Prov. Adirondacks, *Houghton* (Bdy-CU); Ithaca, Aug 7, 1907 (Bdy-CU); Troy, Jl 18 (Felt).

U. taxodii Ashm. **LI:** Rockaway Beach, Jl 3, 1909, *Ds* (Bdy). Known only from Ga. and Fla., where it breeds in cypress; this record may be only of accidental occurrence.

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[113] The Siricidae of North America. By J. C. Bradley. Journ. Ent. and Zool., vol. 5, p. 1–30. 1913.

SUBFAMILY TREMICINAE

TREMEX Jurine

T. **columba** race **columba** (L.). Common and widely distributed; representative localities are: Wilmington, 1000–2200 ft., Aug; New Russia, Aug 18 (Bdy); Newport, Ap, Aug 30 (Felt); Ogdensburg, Aug (Felt); Alder Cr., Aug (Felt); Syracuse, Sep; Perry; Rochester Jct., Jl, *Leon* (Bdy); Cattaraugus, Sep; Fredonia, Sep 15 (Felt); Castile, *EABradley* (Bdy-CU); Ithaca, Jl–Sep; Trumansburg (Bdy-CU); Taughannock; Kinderhook (Bdy-CU); Albany, May–Aug (Felt); Mansville, Aug (Felt); Addison, Sep; Athens, Oct 15 (Felt); Ellenville (Felt); NYC (Felt); **SI** (Ds); **LI:** Brooklyn, *Eng* (BM).

T. **columba** race **sericeus** Say. Rochester Jct., Jl 26, male, *Leon* (Bdy).

FAMILY CRABRONIDAE [114]

(*Cimbicidae* auct.)

SUBFAMILY CRABRONINAE

(*Cimbicinae* auct.)

CRABRO Geoffroy [115]

(*Cimbex* Olivier and auct.)

C. **americanus** (Leach) var. **albus** (Nort.). Ithaca (CU).

C. **americanus** var. **americanus** (Leach). ELM SAWFLY. Keene Val., Jl (NYS); Axton, Je (MacG-Ill); New Russia, Sep (Felt); Blue Ridge, Jl (Felt); Newport, Je (NYS); Elma (NYS); Jamestown, Collins, Windsor (CU Econ); Ithaca, May (CU); Albany, Je (NYS); White Sulphur Sps. and Montgomery (CU Econ).

C. **americanus** var. **dahlbomi** (Guér.). "NY" (Nort); Ithaca, Je (MacG-Ill).

C. **americanus** var. **decim-maculatus** (Nort.). Ithaca (CU).

C. **americanus** var. **laportei** (Lep.). "NY" (Nort); Ithaca, May, Aug (CU).

C. **americanus** var. **luciferus** (Klug). "NY" (Nort); Ithaca, Je (CU).

C. **americanus** var. **nortoni** (MacG.). Ithaca, Je–Jl (MacG-Ill, CU); Van Cort. Pk., Je (NYS), Jl (CU).

TRICHIOSOMA Leach [116]

T. **bicolor** Nort. Saranac Inn, Je (MacG-Ill, as *confusum* MacG); Axton, Je (M&H-CU).

T. **crassum** Kby. Ithaca, Je (MacG-Ill).

T. **cerasi** (Fitch). Bred from cocoon on cherry by Fitch and described in the genus Abia; also recorded from Canton, Ap (Felt). Fitch's type has not been

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[114] In Comstock's *Introduction to Entomology* this is termed *Cimbicidae*. In MacGillivray's classification it forms the subfamily *Cimbicinae* of the Tenthredinidae. (Bdy.)

[115] Bradley (Trans. Ent. Soc. Lond., p. 66, 1919) has pointed out that the generic name *Crabro* was first used by Geoffroy for the group of insects which has long been known under the name *Cimbex* Oliv. *Cimbex* is synonymized with *Crabro* Geoffroy, and the wasps which have for a long time been known under the generic name *Crabro* Fabricius are assigned to other genera. (Roh.)

[116] The species recorded by MacGillivray (New York State Mus. Bul. 47, 1901, p. 584) under the name *angulatum* Kirby from Saranac Inn, seems not to have been described.

studied, but the description indicates that this species belongs to the genus Trichiosoma and it seems possible that it may apply to some other species more recently described.

T. spicatum MacG. Ithaca, May, McLean, Je 13 (CU).

T. triangularum Kby. Keene Val., *Dyar* (US); Saranac Inn, Je (NYS). Larvae recorded as feeding on willow and wild cherry.

SUBFAMILY **ZARAEINAE**

ZARAEA Leach

(Subgenus **ZARAEA** Leach)

Z. americana Cress. L. Tear, Jl 28, 1920 (US); **LI:** Jamaica, Ap 23, 1910 (US); Flatbush, Ap 20 (MacG-Schott).

Z. inflata Nort. Geneseo, Jl (Felt); Warner, Je (Felt); **LI:** Garden City, Je 8, 1911, *Felt* (NYS). Larva recorded as destroying the foliage of Lonicera.

(Subgenus **ABIA** Leach)

Z. lonicerae (L.). **LI:** Bayside (US). The record of this European species is based on two specimens reared from cocoons on honeysuckle.

FAMILY **ARGIDAE** [117]

(*Hylotomidae* Ashmead)

SUBFAMILY **ARGINAE** [117]

(*Hylotominae* Ashmead and MacGillivray)

ATOMACERA Say

A. debilis Say. Mt. Marcy, Jl, 1913 (NYS).

A. decepta Roh. "NY" (type-US).

A. ruficollis Nort. **LI:** Wyandanch, Je 18 (MacG-Schott); Sea Cliff (MacG-CU).

ARGE Schrank [118]

(*Hylotoma* Latreille)

A. abdominalis (Leach). **LI:** Massapequa, May 4 (MacG-Schott); Farmingdale, Je 14, *Morrow* (Bdy-CU).

A. coerulea (Nort.). Ithaca, Jl (MacG-Ill); **LI:** Centerport (CU).

A. clavicornis (Fab.). Plattsburg (Dyar); Rock City, Je 8 (Bdy-CU); Ithaca, May, Jl (MacG-CU); McLean, Jl 29 (Bdy-CU); Albany (Nort).

A. dulciaria (Say). "NY" (Nort).

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[117] If the Erlangen List is accepted, these names will be replaced by *Cryptidae* and *Cryptinae*, respectively, and the genus name *Arge* by *Cryptus* (Bdy).

[118] The species of this genus are not satisfactorily defined, and, until a revision has been prepared, they cannot be satisfactorily determined. Larvae widely different in appearance produce adults which, according to the published keys, have been assigned to one species, and larvae which are superficially very similar produce adults which are very different in many characters. In this list no effort has been made to correct synonymy or verify identifications. (Roh.)

A. erythrosoma (Leach). "NY" (Nort).

A. humeralis (Beauvois). "NY" (Nort); Ft. Montgomery, Aug 16 (MacG-Schott).

A. macleayi (Leach). Plattsburg, Keene Val., larvae reared by Dyar; Old Forge (NYS); Ithaca, Jl (MacG-Ill); Caroline to Harford, Je 15, *MacG&Bdy* (Bdy-CU); McLean, May 30 (Bdy-CU); Karner, Jl (NYS); Ft. Montgomery, Jl 19 (MacG-Schott). The larva of this species is recorded as feeding on Azalea, willow, black birch, white birch, hazel, mountain ash, wild cherry, and honeysuckle.

A. pectoralis (Leach). Keene Val., larva on *Betula papyrifera* (Dyar 1895); Loon L., Jl (Felt); Birch I., Upper Saranac (Felt); Plattsburg, larva on *Betula lenta* (Dyar 1895); Brille, Je 13, 1891 (CU); Essex Co, Je 1895, larva on birch (NYS); **SI** (Ds).

A. rubiginosa (Pal. de Beauv.). "NY" (Nort); **LI:** Roosevelt, Jl 22 (MacG-Schott).

A. rubra (Klug). Elizabethtown, Aug, 1904, *Yg* (NYS); Essex Co, Jl, 1895, larva on oak, *Yg* (NYS); Ithaca, Je 10–Jl 19 (MacG-CU); **LI:** Wyandanch, Jl 14 (MacG-Schott). Larva recorded as feeding on Crataegus.

A. virescens (Klug). Ithaca, Je 19–Aug 8 (MacG-CU); Spencer L., Je 30 (Bdy-CU).

SUBFAMILY **STERICTIPHORINAE**[119]

(*Schizocerinae* Ashmead and MacGillivray)

STERICTIPHORA Billberg

(*Schizocera* Lepeletier)

S. sericea (Nort.). Ithaca (MacG-Ill, US).

S. prunivora (Dyar). **LI:** Bellport, Jefferson Highlands (Dyar). Larva recorded from *Prunus serotina* and *P. pennsylvanica.*

S. lineata (Roh.). **LI:** Richmond Hill, Aug 8, 1911 (US).

S. zabriskiei (Webster & Malley). **LI:** Flatbush, Jl 4, 1895, Aug 17, 1896, *Zab* (US); Huntington, Aug (MacG-Schott); Bellport (Dyar). Larva feeds on *Portulaca oleracea.*

S. cellularis (Say). "NY", type locality of a synonym.

S. plumigera (Klug). "NY", type locality.

FAMILY **DIPRIONIDAE**[120]

(*Lophyridae* Ashmead, *Lophyrinae* MacGillivray)

DIPRION Schrank

(*Lophyrus* Latreille)

D. simile (Hartig). INTRODUCED PINE SAWFLY. Seven Sps. Farm, Mt. Kisco, Feb, 1925 (US); Pleasantville, Sep, larvae injurious (Roh); **LI:** Flushing (Middleton). An important enemy to pines, which has been introduced from Europe.

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[119] The species of this subfamily have been recently rearranged and a manuscript revision prepared. The present list gives only the specific names which will be accepted in this revision. (Roh.)

[120] In Comstock's *Introduction to Entomology* this family is included as part of the family Argidae. If the Erlangen List names are adopted, *Diprionidae* and *Diprion* will be replaced by *Pteronidae* and *Pteronus,* respectively. (Bdy.)

NEODIPRION Rohwer

N. abietis (Harr.). SPRUCE SAWFLY. Salem, Oct (NYS); Johnsburg, Ap (NYS). Larva a common defoliator of spruce and fir.

N. fabricii (Leach). Karner, Aug, 1902 (NYS); Nassau, May, 1902 (NYS); **LI:** Bellport, larva on pitch pine (Dyar). Larva on *Pinus rigida.* This species was originally described from Ga., and it is very probable that the above records are based on erroneous determinations.

N. lecontei (Fitch). RED-HEADED PINE SAWFLY. "NY", type locality; Axton, Aug (Felt); St. Huberts, Jl (Felt); Cazenovia, Aug 21 (NYS); Ithaca (MacG-Ill); Hyde Pk. (Middleton); Karner, May, 1902 (NYS); Poughkeepsie, Oct, 1895 (NYS); **LI:** Westbury, Jl, Setauket, Oct (Felt). A common enemy of young pines, attacking many species.

N. pinetum (Nort.) (*abbottii* auct. not Leach). Saranac Inn, Sep (NYS); Hemlock L., Aug, Big Moose, Sep (Felt); Johnsburg (Felt); Olmstedville (Felt 1910); Ballston Spa, Oct (Felt); Mt. Kisco, Sep (Felt); Karner, Aug, 1902 (NYS); Albany, Jan, 1902 (NYS). A rather common defoliator of hard pines.

MONOCTENUS Dahlbom

M. juniperinus MacG. Ithaca, reared from larvae on *Juniperus virginiana* by R. L. Junghanns (type).

M. fulvus (Nort.). "NY" (Kby 1882, Brit.Mus.).

FAMILY TENTHREDINIDAE

SUBFAMILY ALLANTINAE

(*Emphytinae* MacGillivray)

STRONGYLOGASTROIDEA Ashmead

S. apicalis (Say). Axton, Jl (CU); Speculator, Aug, *Yg* (NYS); Old Forge, Jl, *Yg* (NYS); Cranberry L., Jl 2, *Htly* (Roh-NYS Col. For.); Ithaca, May, *Dyar* (US, CU); Caroline to Harford, May (CU); McLean, Aug 3 (Bdy-CU); Albany, Nassau, Je, *Yg* (NYS); "**LI**" (US).

S. epicera (Say). Old Forge, Jl, *Yg* (NYS); Hamburg, May, *MCV* (US); Ithaca, May–Je (US, CU, MacG-Ill); McLean, Je 9 (Bdy-CU); Poughkeepsie, Je, *Yg* (NYS); **LI:** Sea Cliff, *Bks* (US).

S. pallidicornis (Nort.). Caroline to Harford, Jl–Aug (CU); Ithaca (US, CU); **SI** (Ds); **LI:** *Ashm* (US); Brooklyn, *Akhurst* (Nort); Flatbush, Jl, *Zab* (US).

S. potulenta MacG. Poughkeepsie, type.

S. rufocincta (Nort.). Ithaca (MacG-Ill); McLean, Jl 18 (Bdy-CU); **LI:** Sea Cliff, *Bks* (US).

S. rufocincta var. **virginica** Roh. Ithaca, *Bks* (US).

S. rufocinctana MacG. **LI:** Richmond Hill, type.

S. rufocula MacG. Ithaca, Je, McLean, May, type.

S. rufula MacG. Ithaca, type.

S. spiculata MacG. Axton, Je (MacG-Ill); Ellenville, type; Caroline to Harford, Je (MacG-Ill).

S. terminalis (Say). Axton, Je (MacG-Ill); Newport, May (NYS); Upper Ausable L., Jl (US); Ithaca, Jl (US); Caroline to Harford, Je (MacG-Ill); Trenton Falls, *Dbl* (Kby); Nassau, May (NYS); **LI** (US); Flatbush, Je, *Zab* (US).

S. unicincta (Nort.). Tompkins Co, Je (MacG-Ill); Albany, Je (NYS); **LI** (US).

S. unicinctella MacG. Ithaca, Aug, type.

DIMORPHOPTERYX Ashmead

D. errans Roh. Ithaca, Je (US); **LI:** Bellport, Je, *Dyar* (US).

D. ithacus MacG. Ithaca, Je, type.

D. pinguis (Nort.). Speculator, Jl, *Yg* (NYS).

MACREMPHYTUS MacGillivray

M. semicornis (Say). Ithaca, Jl–Aug (US, MacG-Ill, CU); Ellis, Je (MacG-Ill).

M. tarsatus (Say). Syracuse, Jl (NYS); Rochester, Sep, larvae abundant on *Cornus mascula, JHDodge* (NYS, Ent. Rept. 1910, p. 59); Ithaca, Je–Aug (US, CU, MacG-Ill); Caroline to Harford, Jl (MacG-Ill); Old Chatham, Sep (NYS); Poughkeepsie, May–Je (NYS).

M. varians (Nort.). Plattsburg, Je (Dyar-US); Ellenville, Je (US, CU); Ithaca, Je–Jl (US, CU, MacG-Ill); Ft. Edward, larvae feeding on *Cornus stolonifera, MWBandenberg* (NYS, Ent. Rept. 1889, p. 188).

M. versicolor (Nort.). Boonville, Sep (NYS); Tompkins Co, Jl (MacG-Ill); Slaterville to Caroline, Je (MacG-Ill); Dryden, Jl (MacG-Ill); McLean, Sep (Bdy-CU); Poughkeepsie, May, *Yg* (NYS).

ERIOCAMPA Hartig

E. juglandis Fitch. "NY", larva on butternut (NYS). It is very probable that this is the same as *rotunda* (Nort.).

E. rotunda (Nort.). Ithaca, May (MacG-Ill, CU).

PSEUDOSIOBLA Ashmead

P. cephalanthi Roh. Van Cort. Pk., Je 2, 1895, larvae on *Cephalanthus occidentalis* (Dyar-US), types.

P. excavata (Nort.). **LI** (US).

AMETASTEGIA A. Costa

A. glabrata (Fall.). Ogdensburg, Jl (NYS); Old Forge, Aug (CU); Ithaca, May–Aug (US, CU, MacG-Ill); Freeville, Jl (CU); McLean, (CU, US); Albany, Karner, May (NYS); Poughkeepsie, Jl (NYS); **LI:** Flatbush, May (US). Larva feeds on dock, and pupates in brashy wood, fallen fruit, or similar substances.

A. equiseti L. var. **bizonata** (Zett.). Syracuse, Je, Aug, *B&S* (US).

POLYTAXONUS MacGillivray

P. robustus (Prov.). Buffalo, Je, *MCV* (US); **LI:** Yaphank (US).

UNITAXONUS MacGillivray

U. repentinus MacG. Ithaca, type.

U. rumicus MacG. Ithaca, type.

PARATAXONUS MacGillivray

P. multicolor (Nort.). Axton (US, MacG-Ill); McLean, Jl (MacG-Ill, Bdy-CU); Ellis, Je (MacG-Ill); Slaterville, May, Jl (CU); **LI:** (US); Huntington, Je (MacG-Schott).

P. multicolor var. **erythrogaster** (Roh.). **LI** (US).

MONOSOMA MacGillivray

M. inferentia (Nort.). Axton, Jl (US); Keene Val., *Dyar*; Castile, *EABradley* (Bdy-CU); Ithaca, May (US, CU, MacG-Ill); McLean, May (US, CU, MacG-Ill). Larva feeds on elder.

ALLANTUS Panzer

(*Emphytus* auctt.)

(Subgenus **EMPHYTUS** Klug)

A. cinctus cinctus (L.). This subspecies has often been intercepted at quarantine in NYC, but, so far as is known, has not yet become established. It is European and feeds on leaves of roses, pupating in the pith of the stalk.

A. cinctus cinctipes (Nort.). Ogdensburg, Jl, *Yg* (NYS); Ilion, May, *Yg* (NYS); Poughkeepsie, Jl, *Yg* (NYS); **SI** (Ds). This subspecies has sometimes been considered synonymous with the European *cinctus*. The feeding habits of the larva are similar to those of *A cinctus cinctus*.

A. haustus MacG. Grand I., type.

A. heroicus MacG. Hamburg, type.

A. hiatus MacG. Ithaca, type.

A. mellipes Nort. Ithaca, May (CU); Clinton Mts., Ap, *Yg* (NYS); Albany, Je, Poughkeepsie, May, *Yg* (NYS).

A. yuasi MacG. Ithaca, type.

(Subgenus **EMPHYTINA** Rohwer)

A. apertus (Nort.). Plattsburg, Je (US); Gloversville, Jl (NYS); Ithaca (US, NYS, CU); Caroline to Harford (CU); W. Danby (CU); Albany, May (NYS).

A. pallipes (Spin.) (*canadensis* Kby.). Plattsburg (Dyar-US); Nassau, *Felt* (NYS); Rhinebeck, *Pratt* (Proc. Ent. Soc. Wash., vol. 4, p. 302, 1896). The larva feeds on the foliage of pansies and violets.

A. inornatus (Say). Speculator, Jl, *Yg* (NYS); Karner, Albany, May, *Yg* (NYS); Van Cort. Pk., May (CU); **LI** (US).

A. tener (Fall.) (*vanduzeei* Roh.). Lancaster, *MCV* (US). This European species is now known to occur in a number of localities in the United States.

SUBFAMILY **DOLERINAE**

DOLERUS Panzer

D. abdominalis Nort. Fulton Co, May (MacG-Ill); Ithaca, Ap (US).

D. acritus MacG. McLean, Ithaca, types.

D. apricus Nort. Plattsburg, Je (Dyar-US); Speculator, Je, Battenville, May, *Yg* (NYS); Ithaca, May–Je (CU, US).

D. aprilis Nort. Ithaca, May (MacG-Ill); Albany, Karner, May, *Yg* (NYS); Chatham, Aug (MacG-Ill); Poughkeepsie, May, *Yg* (NYS); White Plains (US); **SI** (US, Ds).

D. apriloides MacG. Ithaca, Je, type.

D. bicolor (Pal. de Beauv.). Saranac Inn (MacG-Ill, NYS); Ithaca, Je (MacG-Ill); Albany, Ap–May (NYS); **LI** (US).

D. cohaesus MacG. Otto, *Comstock,* type.

D. collaris Say. Ithaca, May (US, MacG-Ill); Karner, Ap (NYS).

D. conjugatus MacG. Fulton Co, *Cy,* types; Otto, *Comstock,* type.

D. dysporus MacG. Ithaca, type.

D. icterus MacG. Saranac Inn, *Ndm,* type.

D. inspectus MacG. Ithaca, type.

D. luctatus MacG. Fulton Co, Ap (US); Ithaca, type.

D. maculicollis Nort. **LI**: Brooklyn (Nort).

D. minusculus MacG. Ithaca, type.

D. neoagcistus MacG. Southfields, *Schott,* type.

D. neocollaris MacG. Fulton Co, *Cy,* type; Ithaca, type.

D. neosericeus MacG. Ithaca, type; Southfields (MacG-Ill); **SI** (US).

D. parasericeus MacG. Ithaca, type.

D. polysericeus MacG. Ithaca, type.

D. refugus MacG. Ithaca, *Comst,* type.

D. sericeus Say. Auburn, May (NYS); Ithaca, Ap–May (US, MacG-Ill); Albany, Ap, Karner, May (NYS); Nassau, May (NYS).

D. similis Nort. Newport, May, *Yg* (NYS); Mallory, Je (US); Ithaca, Jl (US, MacG-Ill); Albany, Je, Karner, Jl, *Yg* (NYS); Chatham, Aug (MacG-Ill); Ardsley, Je (MacG-Schott); **SI,** Ap (Ds).

D. stugnus MacG. Ithaca, type.

D. thoracicus (Pal. de Beauv.). "NY" (Kby).

D. unicolor (Pal. de Beauv.). Ithaca, Mar–May (US, MacG-Ill); Schenectady, May (NYS); Albany, Nassau, Poughkeepsie, Ap (NYS); Southfields, Ap (MacG-Schott); **SI,** Ap (Ds).

LODERUS Konow

L. albifrons (Nort.). Newport, May, *Yg* (NYS); Axton, Je (MacG-Ill); Ithaca, May–Je (CU, MacG-Ill); McLean, May (MacG-Ill); Albany, May, *Yg* (NYS); **SI,** Je (Ds); **LI**: Yaphank, May, *Ols* (MacG-Schott).

SUBFAMILY TENTHREDININAE

LEUCOPELMONUS MacGillivray

L. confusus (Nort.). Ithaca, May 28 (CU).

BIVENA MacGillivray

B. delta (Prov.) (*maria* MacG.). Ithaca, Jl (US, CU); W. Danby, May (CU); McLean, May (CU); Van Cort. Pk., Jl (CU); **LI:** Astoria (MacG-Schott).

B. quattrodecimpunctata (Nort.). L. Tear, Jl (US); Ithaca, May–Je (CU). Larva feeds on *Podophyllum peltatum.*

B. semilutea (Nort.). Ithaca, May (CU).

LAGIUM Konow

L. atroviolaceum (Nort.). Castile, *EABradley* (Bdy); Ithaca, Jl (CU); Southfields, Ap (MacG-Schott).

L. planifrons Roh. **LI:** Gardiners I., Je 11 (MacG-Schott).

PACHYPROTASIS Hartig

P. omega Nort. Saranac Inn, *Ndm* (MacG); Ithaca (CU).

RHOGOGASTER Konow

R. evansii (Harr.). Mt. Skylight, Je (US); Cranberry L., *Htly* (US).

ZALAGIUM Rohwer

Z. cinctulum (Nort.). **LI** (US).

Z. clypeatum Roh. **LI** (US).

MACROPHYA Dahlbom

M. alba MacG. Ithaca, May (CU, US); Van Cort. Pk., Je, *Dyar* (US); **LI:** Forest Hills, May, *Ols* (US); Maspeth, May, *Ols* (MacG-Schott).

M. albomaculata (Nort.). Ithaca, McLean, May (CU).

M. bilineata MacG. Ithaca, Je 28 (CU).

M. cassandra Kby. "NY", *Dbl* (Kby); Ithaca, Jl (CU).

M. confusa MacG. Ithaca, Je 10 (CU).

M. contaminata Prov. **LI** (US).

M. crassicornis Prov. Ithaca, Jl (CU); **LI** (US).

M. dejecta (Nort.). **LI:** Brooklyn, *JAkhurst* (Nort).

M. dyari Roh. Ithaca (MacG-Ill); Van Cort. Pk., *Dyar* (US), type.

M. epinota (Say). Old Forge, Jl, *Yg* (NYS); Poughkeepsie, Jl, *Yg* (NYS); **LI:** Flatbush, May (MacG-Schott). Larva feeds on *Sambucus canadensis* and *S. racemosa.*

M. externa (Say). Ithaca, May–Je (CU); Albany (NYS); Bronx Pk., Jl, *Dyar*; **LI:** Bellport, *Dyar* (Ashm, Can. Ent., vol. 30, p. 174, 1898). Larva feeds on hickory.

M. fascialis Nort. Big Moose, Jl, *Yg* (NYS); Mt. Marcy, Jl (US).

M. fistula MacG. Ithaca, type.

M. flaccida MacG. Ithaca, type.

M. flavicoxae (Nort.). Newport, Je, *Yg* (NYS); Axton, Jl (CU); Castile, *EABradley* (Bdy); Ithaca, May–Je, McLean, May–Jl 20 (Bdy-CU); Albany, Nassau, May, *Yg* (NYS); Morrisville, May (CU); Poughkeepsie, May, *Yg* (NYS).

M. flicta MacG. Ithaca, type.

M. formosa (Klug). Old Forge, Je, *Yg* (NYS); Poughkeepsie, Jl, *Yg* (NYS); **LI** (US).

M. goniphora (Say). Poughkeepsie, Jl, *Yg* (NYS); Ft. Montgomery, Je (MacG-Schott); Van Cort. Pk., Je, *Dyar* (US); **LI** (US).

M. intermedia (Nort.). Ithaca, Jl (CU); Poughkeepsie, May, Jl, *Yg* (NYS); **LI:** Huntington, Je (MacG-Schott).

M. lineata Nort. Johnstown, May (NYS); Ithaca, May, Jl (US, CU); Albany, May (NYS). Larva feeds on *Aster prenanthoides.*

M. minuta MacG. Plattsburg, *Dyar*, type; Ithaca, May 28 (CU).

M. mixta MacG. "NY" (US).

M. nigra (Nort.). Johnstown, Aug (NYS); Newport, Je (NYS); Ithaca, Je (US); Poughkeepsie, Jl, *Yg* (NYS); **LI:** Flatbush, Je, *Zab* (US).

M. pannosa (Say). "NY" (Nort).

M. propinqua Harr. Ithaca, Je (CU).

M. proximata Nort. Albany, Je, 1909 (NYS).

M. pulchella (Klug). Ithaca, Jl (CU); Albany, Je, *Yg* (NYS); Big Ind. Val., Je, *Pears* (US); Kingston, Aug, Poughkeepsie, May, *Yg* (NYS). Larva feeds on *Solidago juncea* and *Rudbeckia laciniata.*

M. punctata MacG. Plattsburg, type.

M. simillima Roh. Ithaca, May 7, 1897 (US).

M. succincta Cress. Ithaca (US, CU).

M. tibiator Nort. Newport, May, *Yg* (NYS); Ithaca, May–Je (CU); Albany, Je, *Yg* (NYS); Van Cort. Pk., *Dyar*; **LI:** Rockaway Pk., May (MacG-Schott). Larva feeds on Sambucus.

M. trisyllaba (Say). Axton, Jl (CU); Ithaca, Aug (CU); McLean, Je 12–Sep 24 (Bdy-CU); **LI:** Flatbush, Je–Jl, *Zab* (US). Larva feeds on *Sambucus canadensis.*

M. trosula Nort. Poughkeepsie, Jl, *Yg* (NYS); **LI** (US).

M. varia (Nort.). Adirondacks, Je (US); Axton, Jl (CU); McLean, Je 12–Jl 19 (Bdy-CU); Nassau, May (NYS).

M. zabriskiei Roh. **LI** (type-US).

M. zonalis Nort. Axton, Je–Jl (US, CU); Cranberry L., Je–Jl, *Htly* (Roh); Old Forge, Jl (CU); McLean, Ithaca, Jl (CU); Slaterville, Jl (CU); Mallory-ville (CU).

TENTHREDO Linnaeus

(*Allantus* auctt.)

(Subgenus **TENTHREDO** Linnaeus)

(*Allantus* auctt.)

T. basilaris Say. L. Pleasant, Jl (NYS); Castile, *EABradley* (Bdy); Ithaca, Jl–Aug (CU, US); McLean, Aug 19–Sep 3 (Bdy-CU); L. George, Aug, *Zab* (US); Albany (NYS); Karner, Aug (NYS); Salem, Aug (NYS); Southfields, Aug (MacG-Schott); **SI** (Ds).

T. dubius (Nort.). McLean, Jl 18 (Bdy-CU).

(Subgenus **LABIDIA** Provancher)

T. originalis (Nort.). L. Tear, Jl (US), *Fbs* (Bdy-CU); Mt. Skylight, Jl (US).

TENTHREDELLA Rohwer [123]

(*Tenthredo* auctt.)

T. angulifera (Nort.). Ausable L., Jl, *Bks* (NYS); Severance, Aug (NYS); Ithaca, Jl (CU); Albany (Nort).

T. antennata (Kby.). Castile, *EABradley* (Bdy).

T. bilineata (MacG.). Ithaca, Jl, types; larva feeds on *Geranium maculatum.*

T. causata (MacG.). Ithaca, *Junghanns,* type.

T. cressoni (Kby.). Keene Val., *Dyar* (MacG). Larva feeds on white birch.

T. eximia (Nort.). Cranberry L., Jl 28, 1924, *Htly* (Roh-NYS).

T. flavomarginis (Nort.). Canandaigua L., May, Poughkeepsie, Jl, *Yg* (NYS).

T. grandis (Nort.). Speculator (Smulyan); Canandaigua L., Jl, *Yg* (NYS); Ithaca (Smulyan); McLean, May; Poughkeepsie, Jl (Smulyan-NYS).

T. hyalina (MacG.). Plattsburg, *Dyar,* type.

T. junghannsii (MacG.). Ithaca, *Junghanns,* type.

T. leucostoma (Kby.) (*rufipes* Say). Keene Val., Jl, *Yg* (NYS); Old Forge, Jl, *Yg* (NYS); Saranac Inn, *Ndm*; McLean, May (Bdy-CU); Poughkeepsie, Je (Smulyan); Ft. Montgomery, Je (MacG-Schott).

T. lobata lobata (Nort.). Cranberry L., *Htly* (US); Ithaca, Je 14–Jl 4 (Bdy-CU); **LI:** Wyandanch, Jl (MacG-Schott).

T. macgillivrayi Smulyan. Gloversville, Aug (Smulyan).

T. mellina (Nort.). Keene Val., Jl, *Yg* (NYS); Karner, Je, *Yg* (NYS).

T. nigricollis (Kby.). "NY" (Smulyan).

T. piceocincta (Nort.). **LI:** Brooklyn, *JAkhurst,* type.

T. rubripes (MacG.). Ithaca, *Junghanns,* type.

T. rufipes (Say). McLean, May 31, 1913 (Bdy-CU).

T. rufopecta (Nort.). Newport, May, *Yg* (NYS); Corning, *Lint* (Marlatt); Ithaca, McLean (Smulyan); N. Chatham, Je, *Yg* (NYS); Rensselaer, Jl, *Yg* (NYS).

T. rufopediba (Nort.). Karner, Jl (NYS).

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[123] The New England sawflies of the genus Tenthredella Rohwer. By M. T. Smulyan. Proc. Bost. Soc. Nat. Hist., vol. 36, p. 383–465. 1923.

T. signata (Nort.). Speculator, May, *Yg* (NYS); Newport, Jl, *Yg* (NYS); Ithaca (Smulyan); McLean, May (Bdy-CU); Poughkeepsie, May, *Yg* (NYS).

T. smectica (MacG.). Ithaca, type.

T. verticalis (Say). Saranac Inn, *Ndm*; L. Pleasant, Je, *Yg* (NYS); Sacandaga Pk. (Bdy-CU); Albany, Jl, Karner, Je, *Yg* (NYS); N. Chatham, Je, *Yg* (NYS); Rock City, Je 9 (Bdy-CU); Rochester Jct., Jl 7, *Leon* (Bdy-CU); **LI** (Ds); Huntington, Je (MacG-Schott).

T. yuasi (MacG.). Ithaca, type.

SUBFAMILY **MESSINAE**[124]

(*Phyllotominae, Fenusinae,* and *Scolioneurinae,* MacGillivray)

CALIROA O. Costa

C. aethiops (Fab.). ROSE SAWFLY. Ithaca, May (CU); Geneseo, Je (NYS). This is a well-known European enemy of roses which has become well established in the US; it is probably widely distributed throughout NY; in literature it is often referred to as *Endelomyia rosae* or *Monostegia rosae.*

ERIOCAMPOIDES Konow

E. fasciata (Nort.). Plattsburg, *Dyar.* Larva feeds on black oak.

E. lata (MacG.). Ithaca, type.

E. limacina (Retz.). PEAR SLUG. Albion, *Felt*; Syracuse (CU Econ); Angola (CU Econ); Corning, Je (NYS); Binghamton (CU Econ); Schenectady, Rensselaer (Felt); Kinderhook, *Felt*; Athens, Aug (Felt); West Farms. This species is undoubtedly widely distributed throughout the State. The larva is injurious to plums, cherries, pears, and allied plants, skeletonizing the leaves.

E. lobata (MacG.). Oswego, *CSSheldon,* type.

E. lunata (MacG.). Ithaca, type.

E. nortonia (MacG.). McLean, May 30, 1890, type. I do not know this species and find no reference to it since the original description. It was described in the genus Caliroa (Can. Ent., vol. 26, p. 324, 1894).

E. obsoleta (Nort.). Albany, May, Karner, Je (NYS); Nassau, May (NYS); Poughkeepsie, May (NYS). Larva feeds on leaves of wild cherry.

PROFENUSA MacGillivray

P. collaris MacG. CHERRY AND HAWTHORN SAWFLY LEAF-MINER. Rochester (Parr&Fult); Geneva, May, *Parr&Fult* (US); Ithaca, May, types; Germantown (Parr&Fult); Botanical Gardens, NYC (Parr&Fult). Larva mines the leaves of cherry and hawthorn.

MESSA Leach

M. alsia MacG. Ithaca, May, type.

M. amica MacG. N. Evans, Aug, type.

M. appota MacG. Buffalo, Je, type.

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[124] *Messinae* is used for this subfamily by Rohwer because *Messa* is the oldest contained generic name. Those who believe, with the editor, that the subfamily name should be based on the oldest usage of a contained generic name for the stem of the name of a group higher than genus, will substitute *Phyllotominae* for *Messinae.* (Bdy.)

FENUSA Leach

F. dohrnii (Tischb.). Ithaca, Je, Aug (US, CU); **LI:** Prospect Pk., Brooklyn, Ap (US). Larva mines the leaves of European elm, also of European alder.

F. pumila Klug. BIRCH LEAF-MINER. Generally present on gray birch from Chatham northward to Hudson Falls and westward to Binghamton (Felt, litt. Feb. 7, 1925); "very abundant on trees less than six feet high at Stephentown," (Felt, May 28, 1925). A European species recently found in the US.

KALIOFENUSA MacGillivray

K. ulmi (Sundewall). ELM LEAF-MINER. Syracuse, Je (Felt); Johnstown, Je (Felt); Clinton, Je (Felt); Rochester (Felt); Ticonderoga, Je, Wilton, Je (Felt); Baldwinsville, Pompey, Kenwood (Felt); L. George, Je (Felt); Ithaca, Je (US, CU); Albany, Troy (Felt); Tivoli, May (Felt); Cambridge, Greenwich, Je (Felt). Larva mines the leaves of American and European elms.

POLYBATES MacGillivray

P. slossonae MacG. Niagara Falls, Sep 4, 1911, *MCV* (US).

METALLUS Forbes

M. capitalis (Nort.). **LI:** Brooklyn, *JAkhurst*, type.

M. rubi Forbes. BLACKBERRY LEAF-MINER. "NY" (CU). Larva mines the leaves of Rubus.

SUBFAMILY EMPRIINAE [125]

(*Blennocampinae, Lycaotinae,* part of *Emphytinae,* MacGillivray)

EMPRIA Lepeletier

E. caeca MacG. Ithaca, type.
E. callida MacG. Ithaca, type.
E. callosa MacG. Ithaca, type.
E. candidula MacG. Ithaca, type.
E. caprina MacG. Ithaca, type.
E. cariosa MacG. Slaterville to Caroline, type.
E. casta MacG. Phoenix, type ♂.
E. cauduca MacG. Ithaca, type.
E. cauta MacG. Ithaca, type.
E. cava MacG. Lancaster, *MCV*, type.
E. cavata MacG. Oswego, *CSSheldon*, type.
E. celebrata MacG. Buffalo, *MCV*, type.
E. celsa MacG. Ithaca, type.
E. cerina MacG. Ithaca, type.
E. cetaria MacG. Ithaca, type.
E. columna MacG. **LI:** Wyandanch, *Schott*, type.

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[125] As with *Messinae* (see footnote on page 885), *Empriinae* is based on the oldest contained genus. But the oldest group name is *Blennocampinae*. (Bdy.)

E. coryli (Dyar). Plattsburg (Dyar); Van Cort. Pk., *Dyar*. Larva feeds on hazel.

E. ignota (Nort.). Glens Falls, Je 2 (NYS).

E. maculata (Nort.). BLACK-MARKED STRAWBERRY SLUG. Ithaca (CU); Saratoga Sps., May 30 (Felt); **LI** (US). Larva feeds on leaves of cultivated strawberries and often does some damage.

APHANISUS MacGillivray

A. muricatus MacG. Ithaca, type.

A. odoratus MacG. Ithaca, type.

BLENNOCAMPA Hartig

B. abnorma MacG. Ithaca, type.

B. abjecta MacG. Ithaca, type.

B. spiraeae Dyar. Keene Val. (Dyar-US), type. Larva feeds on *Spiraea salicifolia*.

ERYTHRASPIDES Ashmead

E. pygmaea (Say). Albany, Nassau, May (NYS); West Park, Jl, *Felt*, Poughkeepsie, May (NYS). Larva feeds on leaves of grape.

E. caryae (Nort.). Malden-on-Hudson, Aug 20 (Felt).

HYPARGYRICUS MacGillivray

H. fumipennis (Nort.). Newport, May (NYS); Ithaca, May–Je (CU, MacG-Ill); Kingston, Aug (NYS); Poughkeepsie, Jl, *MCV* (NYS); Ft. Montgomery, Je (MacG-Schott); **SI**, Jl (Ds). Larva feeds on leaves and flowers of *Smilacina racemosa*.

H. infuscatus MacG. Ithaca, type.

MONOPHADNOIDES Ashmead

M. collaris MacG. Ithaca, type.

M. concessus MacG. Ithaca, type.

M. conspersus MacG. Ithaca, type.

M. conspiculata MacG. Ithaca, type.

M. conspicuus MacG. McLean, type.

M. rubi (Harr.). RASPBERRY SAWFLY. Newark, *CHStuart* (NYS); Oneida (Felt-NYS); Naples, Je (CU Econ). Larva is sometimes destructive to foliage of Rubus and has been recorded as feeding on ragweed.

MONOPHADNUS Hartig

M. aequalis MacG. Ithaca, type.

M. bipunctatus MacG. Ithaca, type.

M. tiliae Nort. Ithaca, McLean, May (CU, MacG-Ill); Rensselaer, Je (NYS); Poughkeepsie, Je (NYS). Larva feeds on leaves of Tilia.

PARACHARACTUS MacGillivray

P. obscuratus MacG. Ithaca, type.

P. rudis (Nort.). "NY" (Nort).

PERICLISTA Konow

(*Isodyctium* Ashmead)

P. albicollis (Nort.). **LI:** Bellport (Dyar-US); Yaphank, *Dyar* (US). Larvae feed on leaves of *Quercus tinctoria.*

P. caryicola (Dyar). Bronx Pk. (Dyar-US); **LI:** Bedford, *Dyar.* Larva feeds on hickory.

P. confusa MacG. Ithaca, type.

P. emarginata (MacG.). Pelham Manor, May, Van Cort. Pk., May, *Dyar.* Larvae feed on leaves of *Quercus coccinea.*

P. infrequens (Nort.). **LI:** Brookhaven, Je, Bellport, Je, *Dyar.* Larva feeds on foliage of *Quercus alba.*

P. marginicollis (Nort.). "NY" (Nort).

P. media (Nort.). Pelham Manor, Van Cort. Pk., *Dyar* (US); **LI:** Brookhaven, Bellport, Yaphank, *Dyar* (US). Larva feeds on foliage of *Quercus alba.*

P. purpuridorsum Dyar. Ithaca, May–Je (CU, MacG-Ill); Pelham Manor, May, *Dyar* (US); **LI:** Bellport, Brookhaven, Je, *Dyar* (US).

P. similaris Roh. **LI:** Brookhaven, *Dyar.* Larva feeds on *Quercus alba.*

P. subgregaria (Dyar). Ithaca, May (CU); Pelham Manor, *Dyar* (US). Larva feeds on *Quercus prinus.*

P. subtruncata Dyar. Van Cort. Pk., May, *Dyar* (US). Larva feeds on *Quercus coccinea.*

P. xanthognatha Roh. Ithaca, type.

RHADINOCERAEA Konow

R. similata MacG. Ithaca, type.

SUBFAMILY PHYMATOCERINAE [126]

NEOTOMOSTETHUS MacGillivray

N. hyalinus MacG. McLean, type.

TOMOSTETHUS Konow

T. bardus (Say). Keene Val., Je (Dyar-US); Rouses Pt., Je, *Dyar*; Ithaca, May–Je (CU); Greenwood L., May (MacG-Schott). Larva feeds on foliage of ash.

T. inhabilis (Nort.). McLean, Je 13–Jl 15 (Bdy-CU).

SUBFAMILY SELANDRIINAE

CORYNA Lepeletier

C. vanduzeei (Roh.). Buffalo, Je 4, 1890, *MCV* (US), type.

[126] Included in Blennocampinae by MacGillivray.

POLYSELANDRIA MacGillivray

P. flavipes (Nort.). Saranac Inn, Jl (NYS); Axton, Jl (CU); Oswego, Jl (CU); Ithaca, Jl (CU); Karner, Jl, N. Chatham, Je (NYS); **LI** (US). Larva feeds on *Pteris aquilina.*

HEMITAXONUS Ashmead

H. albidopictus (Nort.) (*innominatus* MacG.). Saranac Inn, *Ndm*, type of *innominatus*; Syracuse, Aug (MacG-Ill); Boston, Aug, *MCV* (US); Ithaca, Sep (MacG-CU); **LI:** Wyandanch, May (MacG-Schott).

H. amicus (Nort.). Rouses Pt., Je 13, 1895 (Dyar-US). Larva feeds on *Onoclea sensibilis.*

H. dubitatus (Nort.). Ellenville, Jl (CU); Ithaca, May (US,CU); McLean, May (CU); W. Nyack, Jl (US); Van Cort. Pk., Jl (US); **LI:** (US); Maspeth, Je, *Ols* (MacG-Schott). Larva feeds on Onoclea.

STRONGYLOGASTER Dahlbom

S. annulosus Nort. Saranac Inn, *Ndm* (MacG); Axton, Je (US, CU); Woodworth, Je (NYS); Ilion, May (NYS); Albany, Je (NYS); **LI:** Wyandanch, May (MacG-Schott). Larva feeds on *Pteris aquilina.*

S. longulus Nort. McLean, Je 5 (Bdy-CU); Albany, May (NYS); **LI:** Wyandanch, May (MacG-Schott).

S. luctuosus Prov. Keene Val., *Dyar* (MacG).

S. politus Cress. Otto (CU); McLean, Je 5 (Bdy-CU). Larva feeds on *Pteris aquilina.*

S. soriculatipes Cress. Cranberry L., Je 19, 1924, *Htly* (Roh).

S. tacitus (Say). Castile, *EABradley* (Bdy); McLean, Ap 30 (Bdy-CU); Karner, May, Albany, Je (NYS); **LI:** (US); Yaphank, Jl, *Ols* (MacG-Schott).

S. unicus Nort. **LI:** Brooklyn, *JAkhurst* (Nort).

THRINAX Konow

T. pullatus MacG. Ithaca, type. Larva feeds on fern.

SUBFAMILY CLADIINAE

TRICHIOCAMPUS Hartig

T. gregarius (Dyar). Keene, Jl 1, 1894, *Dyar* (US). Larva feeds gregariously on *Populus tremuloides* and *P. deltoides.*

T. pacatus MacG. Ithaca, type.

T. viminalis (Fall.). POPLAR SAWFLY. Greenfield Center, Chester, Aug, New Milford, Aug (Felt); Binghamton, Sep (Felt); Albany and vic. (NYS,CU, US, MacG-Ill); Cambridge, *Felt* (NYS); NYC, May, *Dyar* (US); **LI:** Brooklyn (US). This European species was first recorded from US by Lintner, who reared it from larvae feeding on leaves of *Populus monilifera* collected at Albany, and described it as *Aulacomerus lutescens.* It has since been observed in a number of localities in the northeastern part of the US and is sometimes recorded as injurious to Carolina poplar. Lintner observed that adults of the first brood emerge in July and the second brood appears in August.

PRIOPHORUS Dahlbom

P. aequalis (Nort.). Castile, *EABradley* (Bdy); Albany, Ap, *Yg* (NYS).
P. infuscatus (MacG.). Ithaca, type.
P. palliolatus (MacG.). Ithaca, type. Larva feeds on leaves of Salix.
P. rubi Roh. Hamburg, May 14, 1911, *MCV* (US).
P. solitarius (Dyar). Ithaca, Aug (CU).

CLADIUS Rossi

C. isomerus Nort. (*pectinicornis* auctt. not Fourc.). BRISTLY ROSE SLUG. Ellenville, Je (MacG-Ill); Ithaca, Aug (Griswold); Van Cort. Pk., Je, *Dyar* (US). This is a very common leaf skeletonizer of roses, and undoubtedly is widely distributed throughout the State.

SUBFAMILY NEMATINAE

PLATYCAMPUS Schiødte

P. americanus (Marl.). Plattsburg, *Dyar*. Larva feeds on foliage of poplar.

CERATEROCERCUS Rohwer

C. albidovariatus (Nort.). **LI:** Bellport, May, *Dyar* (US). Larva feeds on foliage of *Quercus coccinea*.
C. phytophagicus (Dyar). Van Cort. Pk., Ap (Dyar-US); Bronx Pk., May, det. from larva (Dyar). Larva feeds on foliage of *Quercus alba*.
C. quercivorus Roh. Bronx Pk., May (Dyar-US); Pelham Bay Pk., May, *Dyar* (US); Franklin Pk., Je (Dyar). Larva feeds on foliage of *Quercus alba*.

HEMICHROA Stephens

H. americana (Prov.). Ithaca, Aug (CU); Fulton, Jl (CU); Ellis, Jl (CU); McLean, May (CU).
H. dyari Roh. Rhinebeck, determined from larva (Dyar). Larva feeds on Alnus.

HOPLOCAMPA Hartig

H. halcyon Nort. Niagara Falls, May, *MCV* (US); Ithaca (US); McLean, May, *CFBaker* (US). Larva feeds within the fruit of Amelanchier.

DINEURA Dahlbom

D. litura (Klug). Karner, Ap–May, "found on willow" (NYS).

PONTANIA A. Costa

P. borealis Marl. Plattsburg, *Dyar*. Larva causes galls on leaves of *Salix sericea*, and according to Dyar is single-brooded.
P. consors Marl. Plattsburg, *Dyar*. Larva causes folds on leaves of *Salix sericea*, and pupates in decayed wood.
P. daedala MacG. Ithaca, type.

P. decrepita MacG. Ithaca, type.

P. dedocora MacG. Ithaca, type.

P. demissa MacG. Ithaca, type.

P. derosa MacG. Ithaca, type.

P. desmodioides (Walsh). Buffalo, Jl (CU Econ); Richfield Sps. (Marlatt).

P. dotata MacG. Ithaca, type.

P. gracilis Marl. Gouverneur (Lint); Van Cort. Pk., *Dyar*. Larva causes galls on leaves of *Salix petiolata*.

P. hyalina (Nort.). Saranac Inn, *Ndm* (MacG-Ill); Johnstown, May (NYS); Canandaigua, Oct (Felt); Ithaca, Jl (CU); Richfield Sps., *Pergande* (Marlatt); Hudson Falls, Jl (Felt); Nassau, May (NYS); Dunkirk, Jl (NYS); **LI:** Bellport, *Dyar*. Larva causes galls on leaves of smooth-leaved willow, according to Dyar; according to records from Cornell collections, the gall occurs on *Salix fragilis*.

P. pallicornis (Nort.). Plattsburg, Aug (Dyar-US); Van Cort. Pk. (Dyar).

P. pisum (Walsh). Ithaca, May (CU, MacG-Ill); Richfield Sps., *Pergande* (Marlatt); E. Steamburg, *ELHorton* (Marlatt). Larva causes galls on the leaves of *Salix discolor*.

P. pomum (Walsh). Canandaigua, Oct (Felt); Ithaca (CU); Albany, *Yg* (NYS); W. Albany, *Lint* (NYS); Hudson Falls, Je (Felt); Easton Hills, Sep (NYS); vic. of NYC (Bt). Larva causes galls on leaves of *Salix cordata* and *S. discolor*.

P. populi Marl. Vic. NYC, *Dyar* (type-US). Larva folds the edge of the leaf of *Populus grandidentata*.

P. robusta Marl. Vic. NYC, *Dyar*. Larva folds the edge of the leaf of *Populus tremuloides*.

P. terminalis Marl. Van Cort. Pk., *Dyar*; NYC, *Dyar* (US), type.

PTERONIDEA Rohwer

(*Pteronus* auctt.)

P. cornelli Marl. Ithaca, Jl (CU); **SI**, Je (Ds); **LI:** Montauk, Jl (MacG-Schott). Larva feeds on foliage of Salix.

P. coryli (Cress.). Plattsburg, Jl, *Dyar*; **SI**, May (Ds). Larva feeds on foliage of *Corylus rostrata*.

P. dyari Marl. "NY", *Dyar* (type-US).

P. edita MacG. Ithaca, type.

P. edura MacG. Ithaca, type.

P. erythrogastra (Nort.). Ithaca, *Bks* (US); Karner, Aug (NYS). Yuasa records the larva as feeding on foliage of *Carpinus caroliniana*, *Morus alba*, and *Alnus rugosa*.

P. fulvicrus (Prov.). Ithaca (MacG-Ill).

P. hudsonii-magna (Dyar). Plattsburg, Aug 31, 1893, *Dyar* (US). Larva feeds on foliage of poplar.

P. hyalina (Marl.). Plattsburg, Je 6, *Dyar* (US). Larva feeds on foliage of white birch.

P. integra (Say). **LI:** Brookhaven, Jl 7, *Dyar* (US).

P. lateralis (Nort.). Plattsburg, Keene Val., *Dyar*; Albany, *Peck* (Nort); Central Pk., NYC, *Dyar*. Larva feeds on foliage of *Betula populifolia*.

P. latisfasciata (Cress.). Keene Val. (Dyar). Larva feeds on foliage of *Betula papyrifolia*.

P. lombardae (Marl.). Plattsburg, Sep 6, 1893, *Dyar* (US). Larva feeds on foliage of *Populus grandidentata*.

P. longicornis (Marl.). "NY" (types-US); Ithaca, Ap–May (CU,US); **LI:** Flatbush, May, *Dyar* (US).

P. longulicornis (Nort.). "NY" (Nort).

P. marlatti (Dyar). "NY", *Dyar*, type.

P. mendica (Walsh). Plattsburg, *Dyar* (US); Ithaca, Ap, Aug (CU); Jefferson Highlands (US); Central Pk., NYC, *Dyar* (US). Larva feeds on foliage of Salix.

P. militaris (Cress.). Ithaca, May, Aug (CU, MacG-Ill).

P. odorata (Dyar). Bluff Pt., near Plattsburg, Aug (Dyar-US); Ithaca, Jl (MacG-Ill).

P. ostiaria MacG. Ithaca, *Yuasa*, type.

P. pinguidorsum (Dyar). Keene Val., *Dyar* (type-US). Larva feeds on foliage of *Betula papyrifera*.

P. plesia Roh. **LI:** Westbury (type-US). Larva feeds on foliage of *Populus grandidentata*.

P. quercus (Marl.). Ithaca, *Trelease*, type; Albany, May (NYS); **LI:** Brookhaven (Dyar-US). Larva feeds on foliage of *Quercus alba*.

P. ribesii (Scop.). IMPORTED CURRANT WORM. Indian L., Watertown (NYS); Oswego, May (MacG-Ill); Fulton (NYS); Rochester (Fitch); Lyons, western NY (NYS); Ithaca (CU); Utica (NYS); Binghamton, May, Ballston Spa, Je (NYS); Rhinebeck, Albany, Johnson City (NYS); **LI:** Flatbush, *Dyar* (US). Larva feeds on foliage of Ribes. This is the common, introduced, currant and gooseberry sawfly. It is undoubtedly very widely distributed throughout the State, and may at times become injurious to cultivated species of Ribes. It has a number of broods each year.

P. trilineata (Nort.). Newburgh, *Edwards* (Nort); Ithaca, Jl (CU); **LI:** Maspeth, Je (MacG-Schott). Larva feeds on foliage of Salix.

P. ventralis (Say). Central Pk. in NYC (Dyar-Us); **LI:** Flatbush, Jl, *Dyar* (US). Larva is common on foliage of willow, and feeds gregariously.

P. vertebrata (Say). Plattsburg (Dyar-US); Jefferson Highlands, Je (Dyar-US); **LI:** Flatbush, Jl, *Zab* (US).

AMAURONEMATUS Konow

A. azaleae Marl. Rochester, Je (Felt); Ithaca (MacG-Ill). Larva feeds on foliage of Azalea.

A. brunneus (Nort.). Ithaca, May 5, 1899 (CU).

A. comstocki Marl. Ithaca, May 2, 1891 (CU).

A. concolor (Nort.). Albany, *Peck* (Nort).

A. fulvipes (Nort.). Ithaca, May (MacG-Ill).

A. gracilis Marl. Ithaca, May (type-CU); **LI:** Wyandanch, Ap (MacG-Schott).

A. lineatus (Harr.). Ithaca, Ap 26, 1896 (CU).

A. luteotergus (Nort.). Keene Val., *Dyar* (US); Ithaca, May (MacG-Ill). Larva feeds on foliage of Alnus.

A. nigrofemoratus (Cress.). Ithaca, May (CU). This is an unusual record and may be based on an erroneous determination.

A. oregonensis Marl. Keene Val. (Dyar). Larva feeds on foliage of "woolly willow."

A. rapax (Cress.). Ithaca, Ap (MacG-Ill). This species was previously reported only from Nevada.

A. similis Marl. Plattsburg and Keene Val., *Dyar*. Larva feeds on foliage of "woolly willow."

CROESUS Leach [127]

C. latitarsis (Nort.). Plattsburg (Dyar); Ithaca, Aug (CU); Glen, Jl (CU). Larvae feed gregariously on foliage of birch.

NEMATINUS Rohwer

(*Nematus* Konow and auctt.)

N. chloreus (Nort.). **LI:** Bellport, Je 5, 1897, *Dyar* (US). Larva feeds on foliage of black oak.

N. unicolor (Dyar). Keene Val., type. Larva feeds on white birch.

NEMATUS Panzer [128]

(*Holconeme* Konow)

N. erichsonii Hartig. LARCH SAWFLY. New Russia, Je (NYS); Alder Cr., Je (NYS); Horicon, Pottersville, Schroon L., DeKalb Jct., Cherry Val., Newton's Corners to Sageville, St. Lawrence Co, Wilmington Notch to Mountain View House in Essex Co (Felt); Crosby, Je (NYS); Ithaca, Ap–Jl (CU, MacG-Ill); Ballston Spa (Felt); Albany, May–Aug (Felt). Larvae feed on foliage of larch, and are often an important pest.

N. suratus Fitch. "NY", type. Larva is recorded as feeding on cherry. This species has not been examined since it was originally described, and very probably does not belong to the genus Nematus as at present restricted.

PACHYNEMATUS Konow

P. aurantiacus Marl. McLean (CU).

P. corniger (Nort.). McLean, Je–Aug (Bdy-CU); Johnstown, Jl, 1908 (NYS).

P. corticosus MacG. Saranac Inn, type.

P. extensicornis (Nort.). "NY" (Nort); Ithaca (CU); W. Danby, May 31 (CU). Larva feeds on foliage of wheat.

P. gregarius Marl. Ithaca (MacG-Ill).

P. inconspicuus (Kby.). "NY", *Dbl* (type-Brit. Mus.).

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[127] If the Erlangen List is accepted, this generic name will have to be changed to *Nematus* Jurine (Panzer).

[128] If the Erlangen List is accepted, the generic name *Nematus* will have to be assigned to the group here treated under the name *Croesus*, and the group treated as *Nematus* will have to be called *Holconeme* Konow.

P. palliventris (Cress.). Oswego, May 15 (CU); Ithaca, *AMShaw* (CU).
P. pleuricus (Nort.). Ithaca, Jl 3 (CU).
P. remissus MacG. Ithaca, type.
P. repertus MacG. Ithaca, type. Larva feeds on Carex.
P. robustus Marl. Ithaca, May 26, *Houghton* (CU).
P. roscidus MacG. Adirondacks, type.
P. subalbatus (Nort.). Ithaca, May 9, 1895 (CU). Larva feeds on Carex.

PRISTIPHORA Latreille

P. banski Marl. Ithaca (US), type; **LI:** Sea Cliff (US), type; Huntington, Je (MacG-Schott).
P. dyari Marl. Keene Val., Je, *Dyar,* type; Ithaca, Jl (MacG-Ill).
P. idiota Nort. Speculator, May (NYS); Karner, Jl, *Yg* (NYS).
P. murtfeldtiae Marl. Ithaca, Aug 19 (CU). Larva feeds on foliage of Salix.
P. ostiaria MacG. Ithaca, type.
P. allicoxa Roh. Lancaster, Je 4, 1911, *MCV* (US).
P. sycophanta (Walsh). Keene Val., *Dyar*; Jefferson Highlands, *Dyar* (Marl). Larva is recorded as feeding on foliage of *Betula papyrifera* and Salix.

DIPHADNUS Hartig

D. appendiculatus (Hartig). "NY" (Nort); Ithaca (US). Introduced; sometimes abundant enough to be considered a pest; larva feeds on foliage of cultivated currants and gooseberries.

EUURA Newman

E. nigria Prov. Ithaca (US, CU, MacG-Ill).
E. orbitalis (Nort.). L. Placid, Ap, *MCV* (NYS); Karner, Je, *MCV* (NYS); Phoenicia, Aug, *MCV*; **LI:** Brooklyn, *Akhurst* (Nort).
E. salicis-nodus Walsh. "NY" (Nort).
E. salicis-ovum Walsh. "NY" (Nort).

FAMILY **PTERYGOPHORIDAE** [129]

ACORDULECERA Say

A. dorsalis Say. Albany, May, 1910 (NYS); Poughkeepsie, May, 1903 (NYS). Larva feeds on oak.
A. maculata MacG. Ithaca, type locality; Caroline to Harford, Je (US,CU); McLean, Jl, Slaterville to Caroline, Je (MacG-Ill).
A. maura MacG. Ithaca (CU), type; Caroline to Harford, Je (US).
A. maxima MacG. Ithaca, type. Larva feeds on *Quercus alba.*
A. meleca MacG. Ithaca, type.
A. minima MacG. Ithaca, type.

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[129] This family is composed of the subfamilies Pterygophorinae and Acordulecerinae of the family Tenthredinidae, in MacGillivray's classification. In Comstock's *Introduction to Entomology,* it is included in the Argidae. (Bdy.)

A. mixta MacG. Ithaca, paratype (US); Mud Cr., Je 17, 1920 (US).
A. munda MacG. Ithaca, type (CU); Greenwood L., Je (MacG-Schott).
A. musta MacG. Ithaca, type (CU). Larva feeds on hickory.
A. nigritarsis Roh. **"LI"**, paratype. Larva feeds on *Quercus marilandica.*
A. parva Roh. Van Cort. Pk., type.
A. quercus Roh. "NY", type. Larva feeds on oak.
A. saginata Prov. Ithaca, Je (MacG-Ill).

SUBORDER IDIOGASTRA

Compiled by S. A. ROHWER

FAMILY ORYSSIDAE

ORYSSUS Latreille

O. affinis Harr. Karner, Je (Yg-NYS); Poughkeepsie, Je (Yg-NYS).
O. sayii Westw. Peru, Sep 19, 1916 (Bdy-CU); Ithaca, Je 3, 1925 (Fbs-CU); **SI**, May–Je (Beq-Ds).
O. terminalis Newman. Trenton Falls (Dbl), type; Michigan Hollow Swamp, *Lloyd* (Bdy-CU); West Pt. (Beq-Ds).

SUBORDER CLISTOGASTRA

Superfamily ICHNEUMONOIDEA

FAMILY BRACONIDAE [130]

Compiled by C. F. W. MUESEBECK

New York specimens of all the species of Braconidae in the following list have not yet been obtained, or at least have not yet been identified; but on the basis of their known general distribution and hosts, they must certainly occur in the State, and for that reason are included.[131] Many of the subfamilies are still in an extremely unsatisfactory condition from a taxonomic standpoint. This is true particularly of Alysiinae, Blacinae, Sigalphinae, Braconinae, Macrocentrinae, Hormiinae, and Aleiodinae. Revision of these groups, and the more thorough working of material already in museum collections, will certainly reveal a much larger braconid fauna in the State of New York. Practically all the species of this family, with the exception of certain Alysiinae, are primary parasites, and many of them are very important agents in the natural control of injurious insects.

SUBFAMILY COENOCOELIINAE

This group has sometimes been held as a distinct family because of the unusual attachment of the abdomen far above the level of the posterior coxae, in which respect it somewhat resembles the Evaniidae. But the wing venation and general structure, as well as the habits and manner of development of the various species, are typically braconid. It is nearest the Helconinae.

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[130] At the suggestion of the editors, Mr. Muesebeck has retained the sequence of subfamilies developed by Szepligeti in *Genera Insectorum*, vol. 22, *Hymenoptera, Fam. Braconidae*, 1904.

[131] Although in other groups species not actually recorded from the State have not been listed, in view of the great pains taken by Mr. Muesebeck in preparing the list of this family, and his feeling, shared by ourselves, that the omission of such species would greatly curtail the value of the list, they have been included but placed in brackets and set in italics. As so much of the literature dealing with our species of Braconidae has been published subsequent to any catalog, Mr. Muesebeck has kindly included the reference to the original description of each species.—Editors.

COENOCOELIUS Provancher

(*Aulacodes* Cresson)

[*C. ashmeadi* D.T. Cat. Hymen., 1898, **4**: 72. A parasite of Leiopus (Cerambycidae) in sumac.]

C. erythrogaster Roh. Can. Ent., 1914, **46**: 317. Syracuse. Reared from *Leiopus alpha* (Say) and ?*Saperda discoidea* Fab. (both Cerambycidae), in hickory.

[*C. populator* (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, **2**: 323.]

C. provancheri Roh. Can. Ent., 1914, **46**: 321. Syracuse, reared by Blackman and Stage from ?*Neoclytus acuminatus* (Fab.) (Cerambycidae) in hickory. Also parasitic on Leiopus larva in sumac.

C. rugosus Prov. Addit. fauna Can. Hymen., 1886, p. 122. Ithaca, Je 29, from the elm borer, *Saperda tridentata* Oliv. (Cerambycidae) (Ashm-CU).

C. saperdae (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 653. Ithaca, Sep (Mues-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Mues-CU). A parasite of the round-headed apple-tree borer, *Saperda candida* Fab. (Cerambycidae).

SUBFAMILY VIPIINAE

(*Braconinae* auctt.)

(Many species of this group are parasitic on Coleoptera of various types, while others are important enemies of injurious Lepidoptera.)

ATANYCOLUS Foerster

(*Melanobracon* Ashmead)

A. epicus (Cress.). Trans. Amer. Ent. Soc., 1872, **4**: 183. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).

A. charus (Rly.). Seventh Ann. Rep. Ins. Mo., 1875, p. 75. Ithaca, Aug (Ashm-CU). A parasite of the larva of *Chrysobothris femorata* (Oliv.) (Buprestidae).

A. rugosiventris (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **2**: 613. Syracuse (B&S). Reared from *Chrysobothris femorata* (Oliv.) (Buprestidae).

A. simplex (Cress.). Trans. Am. Ent. Soc., 1872, **4**: 184. Syracuse (B&S); Ithaca, May (Ashm-CU); **SI**, Jl 31, *Ds* (Ashm); **LI**: Huntington, *Schott* (Roh). Probably throughout the State. Recorded as a parasite of *Saperda discoidea* Fab. and the elm borer, *S. tridentata* Oliv. (both Cerambycidae).

COELOIDES Wesmael

[*C. pissodis* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 617. A parasite of the white pine weevil, *Pissodes strobi* (Peck).]

C. scolytivorus (Cress.). Riley, C.V., Fifth Rep. Ins. Mo., 1873, p. 106. Geneseo. Reared from the hickory bark-borer, *Scolytus quadrispinosus* Say.

CAMPYLONEURUS Szepligeti

[*C. rugator* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 251.]

IPHIAULAX Foerster

I. agrili (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 612. Recorded from NY. A parasite of *Agrilus arcuatus fulgens* Lec. (Buprestidae), and *Neoclytus acuminatus* (Fab.) (Cerambycidae).

I. erythrogaster Br. Hist. Nat. Ins. Hymen., 1846, **4**: 400. Ithaca, May–Sep (CU). A parasite of the larvae of various longicorn beetles.

MICROBRACON Ashmead [132]

(*Bracon* auctt. not Jurine)

As here considered this genus includes the species formerly placed in both Habrobracon and Microbracon. It is a large and very difficult group. Most of the species are parasites of lepidopterous larvae, but some attack Coleoptera, while a few are found parasitizing both lepidopterous and coleopterous larvae which occur in similar situations.

M. apicatus (Prov.). Nat. Can., 1880, **12**: 142. Ithaca, Aug (Ashm-CU); **LI**; probably occurs throughout the State.

[*M. atricollis* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 622.]

[*M. auripes* (Prov.). Addit. fauna Can. Hymen., 1888, p. 372. A parasite of lepidopterous larvae boring in such weeds as Amaranthus and Ambrosia.]

[*M. brachyurus* (Ashm.). Can. Ent., 1891, **23**: 1.]

M. caulicola Gahan. Proc. U.S. Nat. Mus., 1922, **61**: 2. Schenectady, reared by E.M.Searls from *Pyrausta ainslei* (Hein.) (Pyralidae). Probably throughout the State. A parasite of various species of Pyrausta including *nubilalis* Huebner, the imported European corn borer.

[*M. cushmani* Mues. (*variabilis* Cush.). Proc. U. S. Nat. Mus., 1925, **67**: 29. A widely distributed species. Parasitic on *Psorosina hammondi* Rly., *Acrobasis indiginella nebulella* (Rly.), *A. indiginella* Zell. (all Pyralidae), and *Laspeyresia prunivora* Wals. (Tortricidae).]

[*M. furtivus* (Fyles). Can. Ent., 1892, **24**: 34. A very common parasite of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly. (Gelechiidae).]

[*M. gastroideae* (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 617. Parasitic on larva of *Gastroidea cyanea* Melsh.]

M. gelechiae (Ashm.). Proc. U.S. Nat. Mus., 1889(1888), **11**: 623. Ithaca, May (Ashm-CU); McLean, Aug 1 (Mues-CU); Oswego. Undoubtedly throughout the State; very widely distributed, occurring from Me. to Calif. Its recorded hosts include *Psorosina hammondi* Rly. (Pyralidae), the oriental peach moth (*Laspeyresia molesta* Busck), the grape leaf-roller (*Desmia funeralis* Hbn.) (Pyralidae), the grape berry moth (*Polychrosis viteana* Clemens), the apple-leaf-roller (*Archips argyrospila* Wlk.) (Tortricidae), and *Gelechia* spp. (Gnorimoschema?) (Gelechiidae).

M. hebetor (Say). Bost. Journ. Nat. Hist., 1836, **1**: 252. Ithaca, Jl (Ashm-CU). A very abundant cosmopolitan species, occurring throughout the range of its hosts. Its principal hosts are the flour and meal moths, *Ephestia kuhniella* Zell. and *Plodia interpunctella* Hbn. It also parasitizes other species of Ephestia, the angoumois grain moth (*Sitotroga cerealella* Oliv.) (Gelechiidae), *Vitula edmandsii* Pack., and the bee-moth (*Galleria mellonella* L.) (both Pyralidae).

[132] A revision of the North American species of this genus has just been published by Mr. Muesebeck (Proc. U. S. Nat. Mus., 1925, vol. 67, art. 8, 85 pp. (Bdy.)

[*M. juncicola* (Ashm.). Proc. U.S. Nat. Mus., 1889 (1888), **11**:620. Apparently parasitic on the larvae of various species of Coleophora (Coleophoridae).]

M. lixi (Ashm.). Insect Life, 1892, **4**:257. Rye, Jl 15–25 (Bird), a primary parasite on Papaipema (Noctuidae) in early larval stages.

M. lutus (Prov.). Nat. Can., 1880, **12**: 142. McLean, Aug 12, *Sib* (Mues-CU); Rye, reared by HCBird from *Papaipema nebris* Guenée (Noctuidae). Also recorded as a parasite of *Lixus scrobicollis* Boh. (Curculionidae), in Ambrosia.

[*M. melanaspis* (Ashm.). Can. Ent., 1891, **23**: 1.]

M. mellitor (Say). Bost. Journ. Nat. Hist., 1836, **1**: 256. Manlius, *SmHH* (Ashm-CU). A very widely distributed species. In the Cotton States it is an exceedingly important parasite of the cotton-boll weevil, *Anthonomus grandis* Boh., and of the pink boll-worm, *Pectinophora gossypiella* Saunders. In the northern States it has been abundantly reared from the grape berry moth, *Polychrosis viteana* Clemens.

[*M. meromyzae* (Gahan). Proc. U.S. Nat. Mus., 1913, **46**: 432. A parasite of *Meromyza americana* Fitch.]

M. nigridorsum (Ashm.). Can. Ent., 1891, **23**: 2. Ithaca, May (CU).

M. nuperus (Cress.). Trans. Amer. Ent. Soc., 1872, **4**:187. Thousand Isls., Jl (Ashm-CU).

[*M. oenotherae* Mues. Proc. U.S. Nat. Mus., 1925, **67**:62. A parasite of lepidopterous larvae feeding in the seed capsule of the evening primrose.]

M. papaipemae Gahan. Proc. U.S. Nat. Mus., 1922, **61**: 4. Rye, type locality, reared by HCBird from the larva of *Papaipema frigida* Smith (Noctuidae).

[*M. pini* Mues. Proc. U.S. Nat. Mus., 1925, **67**:52. A rather common parasite of the white-pine weevil, *Pissodes strobi* Peck, in the northeastern States.]

[*M. politiventris* (Cush.). Proc. U.S. Nat. Mus., 1919, **55**: 517. A common gregarious parasite of the grape berry moth, *Polychrosis viteana* Clem., and of various leaf-rollers.]

M. punctatus Mues. Proc. U.S. Nat. Mus., 1925, **67**: 24. Nassau Co, type locality, reared from the parsley stalk-weevil, *Listronotus latiusculus* (Boh.), by Chittenden.

M. pygmaeus (Prov.). Nat. Can., 1880, **12**: 144. McLean, Sep 1 (Mues-CU). A very common and widely distributed species, occurring from Me. to Calif. Parasitic on various species of Coleophora (Coleophoridae).

[*M. quinnipiacorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 207.]

[*M. sanninoideae* Gahan. Proc. U.S. Nat. Mus., 1917, **53**: 196. A widely distributed parasite of the peach-tree borer, *Conopia exitiosa* Say.]

[*M. scanticorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 207.]

[*M. sesiae* Mues. Proc. U.S. Nat. Mus., 1925, **67**: 53. A parasite of the currant borer, *Conopia tipuliformis* (L.) (Aegeriidae).]

M. tachypteri Mues. Proc. U.S. Nat. Mus., 1925, **67**: 68. Stony I. (Mues-US). Parasitic on the apple curculio, *Tachypterellus quadrigibbus* (Say).

[*M. tenuiceps* Mues. Proc. U.S. Nat. Mus., 1925, **67**: 46.]

M. variabilis (Prov.). Addit. fauna Can. Hymen., 1888, p. 382. McLean, Aug 12, *Sib* (Mues-CU). A very common, widely distributed species. Recorded as a parasite of the grape berry moth, *Polychrosis viteana* Clem., and the plum curculio, *Conotrachelus nenuphar* (Herbst).

[*M. xanthonotus* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 618. Recorded from N. H. to Calif.]

SUBFAMILY SPATHIINAE

(The species belonging to this group are parasites of wood-boring coleopterous larvae.)

SPATHIUS Nees

[*S. brachyurus* Ashm. Can. Ent., 1893, **25**:71–73. Recorded as a parasite of the white-pine weevil, *Pissodes strobi* Peck.]

[*S. canadensis* Ashm. Can. Ent., 1891, **23**: 2. A parasite of *Phloeosinus dentatus* (Say) and *Ips grandicollis* (Eich.) (both Scolytidae).]

[*S. claripennis* Ashm. Can. Ent., 1893, **25**: 70–72. On record as a parasite of *Polygraphus rufipennis* (Kby.) (Scolytidae).]

S. laflammei Prov. Nat. Can., 1880, **12**: 164. Ithaca, Je (Ashm-CU).

[*S. pallidus* Ashm. Can. Ent., 1893, **25**:70–72. Recorded as parasite of *Ips grandicollis* (Eich.) (Scolytidae).]

S. simillimus Ashm. Can. Ent., 1893, **25**: 70–73. Recorded from NY, as a parasite of *Agrilus bilineatus* (Weber) (Buprestidae).

S. tomici Ashm. Can. Ent., 1893, **25**: 71. Recorded from Erie Co. A parasite of *Orthotomicus punctipennis* (Lec.), *Scolytus piceae* (Swaine), and *Polygraphus rufipennis* (Kby.) (all Scolytidae).

S. trifasciatus Rly. Fifth Ann. Rep. Ins. Mo., 1873, p. 106. Syracuse; Geneseo; Ithaca, Je (Vier-CU). A parasite of the hickory bark-borer, *Scolytus quadrispinosus* Say; probably attacks various species of Scolytus.

S. unifasciatus Ashm. Can. Ent., 1893, **25**: 70–72. Geneseo. A parasite of the hickory bark-borer, *Scolytus quadrispinosus* Say.

CAENOPHANES Foerster

C. aciculatus Ashm. Can. Ent., 1893, **25**: 76. Ithaca, May 31 (Ashm-CU).

SUBFAMILY HECABOLINAE

HECABOLUS Curtis

[*H. lycti* (Cress.). Amer. Ent., 1880, **3**: 24. A parasite of *Lyctus linearis* (Goeze) (Lyctidae).]

[*H. minimus* (Cress.). Amer. Ent., 1880, **3**: 24.]

H. utilis (Cress.). Amer. Ent., 1880, **3**:24. NY, type locality.

SUBFAMILY DORYCTINAE

GLYPTODORYCTES Ashmead

G. caryae (Ashm.). Trans. Am. Ent. Soc., 1896, **23**: 214. Syracuse. From a coleopterous larva in *Hicoria glabra* (B&S).

DORYCTES Haliday

D. disjunctus Cress. Trans. Am. Ent. Soc., 1872, **4**: 186. Syracuse. From a coleopterous larva in hickory (B&S).

[*D. exhalans* (Say). Contrib. Maclur. Lyc. Phila., 1828, **2**: 78.]

[*D. pallipes* Prov. Addit. fauna Can. Hymen., 1888, p. 375.]

D. radiatus Cress. Trans. Amer. Ent. Soc., 1872, **4**: 185. Ithaca, Je 25, Jl 12, *Yuasa* (Bdy-CU).

ODONTOBRACON Cameron

[*O. elaphidiovorus* Roh. Proc. U.S. Nat. Mus., 1917, **53**: 168. A parasite of *Elaphidion* sp. (Cerambycidae).]

[*O. pectinator* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 251. A parasite of *Melanophila fulvoguttata* (Harr.) (Buprestidae).]

SUBFAMILY HORMIINAE [133]

ECPHYLUS Foerster

E. hicoriae Roh. Can. Ent., 1919, **51**: 161. Syracuse, type locality. Reared from a coleopterous larva in *Hicoria glabra.*

[*E. hypothenemi* Ashm. Trans. Am. Ent. Soc., 1896, **23**: 215. A parasite of *Hypothenemus* sp. (Scolytidae).]

[*E. johnsoni* Roh. Proc. U.S. Nat. Mus., 1913, **45**: 539.]

[*E. pallidus* Ashm. Trans. Am. Ent. Soc., 1896, **23**: 216.]

CHREMYLUS Haliday

[*C. terminalis* Ashm. Trans. Am. Ent. Soc., 1893, **20**: 39. Widely distributed.]

HORMIUS Nees

H. americanus Ashm. Bull. Colorado Biol. Assoc., 1890, **1**: 16. Ithaca, Aug (Ashm-CU).

[*H. completus* (Prov.). Addit. fauna Can. Hymen., 1886, p. 156.]

ATOREUTES Foerster

A. astigmus (Ashm.). Trans. Am. Ent. Soc., 1896, **23**: 215. Erie Co. Reared from a coleopterous larva in American larch.

HETEROSPILUS Haliday

[*H. anthaxiae* (Ashm.). Can. Ent., 1893, **25**: 77. A parasite of *Anthaxia viridifrons* (Gorey) (Buprestidae).]

H. blackmani Roh. Can. Ent., 1919, **51**: 161. Syracuse, type locality. From a coleopterous larva in *Hicoria glabra.*

H. cephi Roh. Ithaca, *DRies* (types US, CU), bred from the wheat-stem sawfly, *Cephus pygmaeus* (L.); recorded from the following counties: Wayne, Monroe, Onondaga, Orleans, Genesee, Niagara, Erie, Wyoming, Ontario, Yates, Tompkins, Schuyler, and Cayuga (DTRies).

[*H. hylotrupidis* (Ashm.). Can. Ent., 1893, **25**: 78. A parasite of *Anacomis lignea* (Fab.) (Cerambycidae).]

[*H. languriae* (Ashm.). Can. Ent., 1893, **25**: 77. A parasite of *Anacomis lignea* (Fab.) (Cerambycidae).]

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[133] This and the following subfamily are greatly in need of revision. A thorough study of them will probably result in a decidedly different grouping of the genera.

[*H. mordellistenae* Vier. Proc. U.S. Nat. Mus., 1911, **39**: 403. A parasite of *Mordellistena pustulata* (Melsh.) (Mordellidae).]

[*H. pityophthori* (Ashm.). Can. Ent., 1893, **25**:76. Parasitic on *Polygraphus rufipennis* (Kby.) (Scolytidae).]

SUBFAMILY **ALEIODINAE**

(*Rhogadinae* auctt.)

EPIRHYSSALUS Ashmead

(*Rhyssalus* Haliday)

E. atriceps (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**:628. Ithaca, from *Cacoecia cerasivorana* (Tortricidae) (CU Exp. Sta.). A parasite of various leaf-rollers, including *Archips rosaceana* Harr., and of *Gelechia confusella* Chamb. (Gelechiidae).

E. loxoteniae Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 628. Perry, *IMHawley*, reared from the clover Hypena, *Plathypena scabra* Fab. (Noctuidae) (Mues-CU); Ithaca, May (Ashm-CU).

NOSERUS Foerster

[*N. pomifoliellae* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 620. Parasitic on *Bucculatrix pomifoliella* Clem. (Lyonetiidae).]

CLINOCENTRUS Haliday

[*C. americanus* Weed. Ill. State Lab. Nat. Hist., 1890, Bull. 3, p. 43.]

BUCCULATRIPLEX Viereck

[*B. bucculatricis* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 618. A parasite of *Bucculatrix* sp. (Lyonetiidae).]

[*B. secundus* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 765. A parasite of *Bucculatrix canadensisella* Chamb. (Lyonetiidae).]

ALEIODES Wesmael

(*Rogas* Nees)

A. abdominalis (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 379. Axton, Je (M&H-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); McLean, Aug 11 (Mues-CU).

A. aciculatus (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 381. Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); McLean, Je 24 (Mues-CU).

A. canadensis (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 380. McLean, Aug 31, Sep 1 (Mues-CU).

[*A. hyphantriae* Gahan. Proc. U.S. Nat. Mus., 1922, **61**: 1. A parasite of the fall web-worm, *Hyphantria cunea* Drury.]

A. lectus (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 379. Ithaca, Jl (Mues-CU).

[*A. melleus* (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 382.]

A. parasiticus Norton. Trans. Am. Ent. Soc., 1869, **2**: 327. Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); W. Danby, May (Ashm-CU). Recorded as a parasite of a sawfly, *Neodiprion abietis* (Harr.).

[*A. platypterygus* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 633. Recorded as a parasite of the oriental peach moth, *Laspeyresia molesta* Busck.]

A. rileyi (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 382. Recorded from *Acronycta oblinita* S. & A. (Noctuidae), and the bronzed cutworm, *Nephelodes minians* form *violans* Guenée (Noctuidae). Ithaca, at light (Ashm-CU).

[*A. scrutator* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 254.]

A. stigmator (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, **2**: 324. Otto (CU); Ithaca, Ap–Aug, at light (CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); **LI:** Orient, *Zab* (AM). Our most common species, occurring throughout NY. A gregarious parasite of various species of Acronycta (Noctuidae).

A. terminalis (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 379. Axton, Je (M&H-CU); Ithaca, Je–Jl, at light (Ashm-CU); **LI:** Farmingdale, Jl, *Morrow* (CU). A very common and widely distributed species, occurring throughout NY. A parasite of the army worm, *Cirphis unipuncta* (Haworth).

HETEROGAMUS Wesmael

[*H. fumipennis* (Cress.). Trans. Am. Ent. Soc., 1869, **2**: 378. Recorded as a parasite of various sphingid larvae.]

SUBFAMILY SIGALPHINAE [134]

(Some of the species in this subfamily are valuable parasites of injurious Lepidoptera; others are important parasites of Coleoptera.)

TRIASPIS Haliday

T. curculionis (Fitch). Country Gentleman, 1859, p. 221. Ithaca, Jl (Mues-CU); **LI:** Cold Sp. Harb., *Ds* (Beq). A widely distributed parasite of the plum curculio, *Conotrachelus nenuphar* (Herbst).

T. texanus (Cress.). Trans. Amer. Ent. Soc., 1872, **4**: 179. Ithaca, *Comstock* (Ashm-CU).

UROSIGALPHUS Ashmead

[*U. barberi* Crawf. Insecutor Inscitiae Menstruus, 1914, **2**: 23.]

[*U. femoratus* Crawf. Insecutor Inscitiae Menstruus, 1914, **2**: 26.]

[*U. otidocephali* Cush. Proc. U.S. Nat. Mus., 1922, **60**: 25. A parasite of Otidocephalus (Curculionidae) in sycamore.]

[*U. robustus* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 638.]

SIGALPHUS Latreille

S. bicolor (Cress.). Trans. Am. Ent. Soc., 1880, **8**: 17. Ithaca, Jl (Mues-CU). Occurs throughout the eastern States. A parasite of certain noctuid larvae. Has been reared from *Apatela clarescens* Guen. (Noctuidae), and probably attacks related forms.

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[134] This group includes the Cheloninae and Sigalphinae of Szepligeti and other authors.

CHELONUS Panzer

C. aughei (La Munyon). Proc. Nebr. Assoc. Adv. Science, 1877. Thousand Isls., Sep 4 (Ashm-CU).

C. basicinctus Prov. Nat. Can., 1881, **12**: 198. White L., *Zab* (AM); **LI**: Flatbush, *Zab* (AM).

[*C. basilaris* (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, **2**: 322.]

[*C. brevipennis* Melander & Brues. Biol. Bull., 1903, **5**: 20.]

C. concaputus Vier. Carmel (AM).

C. fissus Prov. Nat. Can., 1881, **12**: 199. Ithaca, Je (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); White L., *Zab* (AM); **LI**: Coney I., *Zab* (AM).

C. iridescens Cress. Proc. Ent. Soc. Phila., 1865, **4**: 294. Manlius, *SmHH* (Cress-CU); Ithaca, Aug (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU).

C. lunatus Hald. Proc. Acad. Nat. Sci. Phila., 1849, **4**: 203. Rochester, Aug 25 (Ashm-CU).

[*C. parvus* Say. Bost. Journ. Nat. Hist., 1836, **1**: 265.]

C. sassacus Vier. Conn. Geol. & Nat. Hist. Surv., Bull. 22, 1916, p. 233. **LI**: Flatlands, Fishers I., *Zab* (AM).

C. sericeus (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1924, **2**: 321. Manlius, *SmHH* (Cress-CU).

[*C. sobrinus* Hald. Proc. Acad. Nat. Sci. Phila., 1849, **4**: 203.]

ASCOGASTER Wesmael

[*A. carpocapsae* (Vier.). Proc. Ent. Soc. Wash., 1909, **11**: 43. A widely distributed parasite of the larva of the codling moth, *Carpocapsa pomonella* L. It is also recorded as having been reared from *Gelechia confusella* Cham. (Gelechiidae), and on a single occasion it was reared from the oriental moth, *Cnidocampa flavescens* Wlk. (Eucleidae).]

A. flaviceps Ashm. Proc. U. S. Nat. Mus., 1888, p. 636. Norton's Landing, *SmHH* (Ashm-CU).

A. provancheri D.T. Cat. Hymen., 1898, **4**: 196. Ithaca, May–Jl, *Comstock* (Ashm-CU).

PHANEROTOMA Wesmael

P. tibialis (Hald.). Proc. Acad. Nat. Sci. Phila., 1849, **4**: 203. Ithaca, reared from clover-seed caterpillar by L.P.Wehrle; Freeville, Jl–Aug (Ashm-CU).

[*P. recurvariae* Cush. Proc. Ent. Soc. Wash., 1914, **16**: 78. Parasitic on the larva of *Recurvaria crataegella* Busck (Gelechiidae).]

SUBFAMILY NEONEURINAE [135]

The subfamily Neoneurinae constitutes a very rare group, represented in the United States by four known species of the genus Elasmosoma. Not more than a very few specimens of any of these occur in any museum collection. They have always been found associated with ants, and observations on European species indicate that they are probably parasitic on them.

[135] This subfamily is not recognized by Szepligeti. For a recent revision, see footnote under Microgasterinae, page 904.

ELASMOSOMA Ruthe

[*E. bakeri* Ashm. Proc. Ent. Soc. Wash., 1895, **3**: 382. Occurs from Me. to N. Mex.]

[*E. pergandei* Ashm. Proc. Ent. Soc. Wash., 1895, **3**: 283. Known to occur from Kans. to NJ, and doubtless is present in NY.]

[*E. schwarzi* Ashm. Proc. Ent. Soc. Wash., 1895, **3**: 283. Probably occurs throughout the eastern States.]

SUBFAMILY MICROGASTERINAE [136]

The subfamily Microgasterinae is the richest in species of all the subfamilies in the Braconidae. The genus Apanteles is a particularly large group, containing nearly two hundred known North American forms. All the species, so far as known, are endoparasites of lepidopterous larvae, some being gregarious parasites, others solitary; and many of them rank among our most valuable natural enemies of injurious insect species.

MIRAX Haliday

[*M. aspidiscae* Ashm. Psyche, 1893, **6**: 378. Recorded as a parasite of *Coptodisca splendoriferella* Clem. (Heliozetidae), and *Laspeyresia prunivora* Walsh (Tortricidae).]

M. lithocolletidis Ashm. Psyche, 1893, **6**: 378. Ithaca (CU). Bred from *Lithocolletes aceriella* Clem. (Gracilariidae).

ADELIUS Haliday

[*A. nigripectus* Mues. Proc. U.S. Nat. Mus., 1922, **61**: 13. A parasite of the poplar leaf-miner.]

MICROGASTER Latreille

M. auripes Prov. Addit. fauna Can. Hymen., 1886, p. 141. Vandalia, Je (Mues-CU); Ithaca, Jl, Caroline to Harford, Jl, *MacG&Bdy* (Mues-CU). A parasite of *Neleucania albilinea* Hbn. (Noctuidae).

M. brittoni Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 202. Rochester Jct., Otto, Ithaca, Taughannock, Spencer L. (all Mues-CU).

M. carinata Pck. McLean, Aug 31 (Mues-CU).

M. canadensis Mues. Proc. U.S. Nat. Mus., 1922, **61**: 38. Nyack, *Zab.*

M. congregatiformis Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 202. **LI,** *Zab.*

M. ecdytolophae Mues. Proc. U.S. Nat. Mus., 1922, **61**: 24. Mt. Whiteface, 2000–4000 ft.; Freeville; Ithaca (all Mues-CU). A parasite of *Ecdytolopha insiticiana* Zell. (Tortricidae), and *Psorosina hammondi* Rly. (Pyralidae).

M. epagoges Gahan. Proc. U.S. Nat. Mus., 1917, **53**: 197. Ithaca, Aug (Mues-CU). Described as a parasite of *Sparganothis sulfureana* Clem. (Tortricidae).

M. facetosa Weed. Trans. Am. Ent. Soc., 1888, **15**: 296. Cranberry L., *Htly* (Mues); Rock City, Je; Caroline to Harford, Je, *MacG&Bdy*; Ellis to Slaterville; Slaterville to Caroline, Je, *MacG&Bdy*; Freeville, Jl; Rock City, Je; W. Danby, May; Waterville, May (all Mues-CU). A very common species. Recorded as a parasite of *Plathypena scabra* Fab. (Noctuidae).

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[136] For a recent revision of this subfamily, see *A Revision of the North American Ichneumon-Flies Belonging to the Subfamilies Neoneurinae and Microgasterinae,* by C. F. W. Muesebeck. Proc. U. S. Nat. Mus., 1922, **61**:1–76.

M. garmani (Ashm.). Proc. U.S. Nat. Mus., 1900, **23**: 132. **LI:** Flatbush.

M. gelechiae Rly. First Ann. Rep. Ins. Mo., 1869, p. 178. Otto (Mues-CU). A parasite of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly. (Gelechiidae).

M. lateralis Prov. Addit. fauna Canad. Hymen., 1886, p. 141. Cranberry L., *Htly* (Mues).

M. pantographae Mues. Proc. U.S. Nat. Mus., 1922, **61**: 34. Ithaca, May–Aug (Mues-CU). Described as a parasite of *Pantographa limata* G. & R. (Pyralidae).

M. rubricoxa Prov. Addit. fauna Can. Hymen., 1886, p. 143. Cayuga Co, Jl 22 (Mues-CU); Spring Lake; **LI.**

[*M. schizurae* Mues. Proc. U.S. Nat. Mus., 1922, **61**: 30. A parasite of *Schizura unicornis* S. & A. and *S. concinna* S. & A. (Notodontidae).]

M. zonaria Say. Bost. Journ. Nat. Hist., 1836, **1**: 263. N. Fair Haven, Sep (Mues-CU); Ithaca, Sep (Mues-CU); **LI:** Flatbush. Recorded as a parasite of species of Recurvaria (Gelechiidae).

MICROPLITIS Foerster

M. alaskensis Ashm. Proc. Wash. Acad. Sci., 1902, **4**: 249. Manlius, Aug, *SmHH* (Mues-CU); Ithaca, May–Jl (Mues-CU). A very widely distributed species. Recorded as a parasite of Hadena and Plusia (Noctuidae).

M. ceratomiae Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 303. Wilmington, Aug 20 (Mues-CU). Doubtless occurs throughout the State. A common parasite of sphingid larvae, particularly *Ceratomia amyntor* Hbn., *Paonias excaecatus* S. & A., *Sphinx drupiferarum* S. & A., and *S. gordius* Stoll.

M. confusus Mues. Proc. U.S. Nat. Mus., 1922, **61**: 69. Rock City, Je 9, McLean, May (Mues-CU). A parasite of cutworms.

[*M. croceipes* (Cress.). Trans. Am. Ent. Soc., 1872, **4**: 183. Occurs from Colo. to the Atlantic coast. Recorded as a parasite of the corn ear-worm, *Heliothis obsoleta* Fab., and the tobacco bud-worm, *Chloridea virescens* Fab. (Noctuidae).]

M. gortynae Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 304. Waterville, Je 11, reared from *Gortyna immanis* Gn. (Noctuidae), by IMHawley (Mues-CU); Rye, reared from *Papaipema nebris* Guenée (Noctuidae), by Bird.

M. hyphantriae Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 164. Ithaca, Je–Jl (Mues-CU). A parasite of fall web-worm, *Hyphantria cunea* Drury (Arctiidae).

M. kewleyi Mues. Proc. U. S. Nat. Mus., 1922, **61**: 51. Geneva, *Melander*; Ithaca, May, *PettyFW* (Mues-CU). A parasite of cutworm larvae.

M. laticinctus Mues. Proc. U. S. Nat. Mus., 1922, **61**: 67. Oswego, type locality; Rock City; Forest Lawn; McLean; Hornerstown; Nyack.

M. mamestrae Weed. Ill. State Lab. Nat. Hist., 1887, Bull. 3, p. 2. Dryden, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Albany, reared from *Ceramia picta* Harr. (Noctuidae), by Lintner.

M. maturus Weed. Trans. Am. Ent. Soc., 1888, **15**: 294. Waterville, May, Ithaca, May–Jl (Mues-CU). A common and widely distributed species.

M. melianae Vier. Proc. U.S. Nat. Mus., 1911, **40**: 185. Axton, Je (M&H-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU). Recorded as a parasite of *Neleucania albilinea* Hbn., and the armyworm, *Cirphis unipuncta* Haworth (Noctuidae).

[*M. perplexus* Mues. Proc. U.S. Nat. Mus., 1922, **61**: 49. A widely distributed species.]

M. quadridentatus (Prov.). Addit. fauna Can. Hymen., 1886, p. 140. Ithaca (Mues-CU). Recorded as a parasite of *Simyra henrici* Grt. (Noctuidae).

M. varicolor Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, p. 204. Peru, Rock City, Caroline, Slaterville (all Mues-CU). A parasite of *Cirphis unipuncta* Haworth, the army worm, also of *Cirphis* sp. and *Plathypena scabra* Fab. (Noctuidae).

APANTELES Foerster [137]

[*A. acronyctae* Rly. Second Rep. Ins. Mo., 1870, p. 120. Recorded as occurring from Calif. to Me. A gregarious parasite of various species of Acronycta (Noctuidae).]

[*A. alypiae* Mues. Proc. U.S. Nat. Mus., 1922, **61**: 18. A parasite of the larva of a common grape pest, the eight-spotted forester, *Alypia octomaculata* Fab. (Agaristidae).]

A. anisotae Mues. Proc. U.S. Nat. Mus., 1920, **58**: 555. Elmira, *CLGriswold*. A gregarious parasite of *Anisota senatoria* S. & A. (Citheroniidae).

A. argynnidis Rly. Scudder, S. H., Butterflies eastern U. S., 1889, p. 1904. Westport; Ithaca, May (Mues-CU); Ashokan; Rhinebeck; Glens Falls. Reared from *Epargyreus tityrus* Fab. (Hesperiidae), Sep, 1890, at CU Agr. Exp. Sta.

A. aristoteliae Vier. Proc. U.S. Nat. Mus., 1912, **42**: 613. Cranberry L., *Htly* (Mues-CU); Ithaca, May (Mues-CU); Ellis to Slaterville, and Caroline to Harford, Je, *MacG&Bdy* (Mues-CU). Occurs throughout the northeastern States, at least from Ill. to Me. A parasite of *Aristotelia fungivorella* Clem., *Gelechia trialbamaculella* Chamb., and *G. confusella* Chamb. (Gelechiidae).

A. atalantae (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, **21**: 27. Waterford, Hebron, *JVSchaffner, Jr.* A very abundant parasite of the red admiral, *Vanessa atalanta* L., and the small tortoise, *Aglais milberti* Godart. The cocoons are grouped in small masses, completely inclosed in a ball of white silk, much resembling a spider-egg cocoon.

A. bedelliae Vier. Proc. U.S. Nat. Mus., 1911, **40**: 174. **LI:** Westbury. Recorded as a parasite of *Bedellia minor* Busck, *B. somnulentella* Zell. (Lyonetiidae), *Recurvaria thujaeella* Kf. (Gelechiidae), and *Anomis erosa* Hbn. (Noctuidae).

A. cacoeciae Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 306. Hilton, Je (Mues-CU); Ithaca (Mues-CU); Cohoes, reared from *Tortrix* sp. by THSoden. A common parasite of leaf-rollers from Mo. to Me. Recorded hosts include *Cacoecia semiferana* Wlk. (Tortricidae), *Acrobasis caryae* Grt. (Pyralidae), and *Tortrix* spp.

A. canarsiae Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 127. Ithaca, Jl (CU). Occurs from Ia. to Me. A parasite of the grape leaf-folder, *Desmia funeralis* Hbn., and the apple leaf-skeletonizer, *Canarsia hammondi* Rly.

[*A. cardui cola* (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, **21**: 27. Recorded as a parasite of the painted lady, *Vanessa cardui* L.]

[*A. carpatus* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 263. A widely distributed parasite of various clothes moths, *Tinea pellionella* L., *Trichophaga tapetzella* L., and *Tineola biselliella* L.]

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[137] A revision of the North American ichneumon-flies belonging to the genus Apanteles. By C. F. W. Muesebeck. Proc. U. S. Nat. Mus., 1920, **58**: 483–576.

[*A. charadrae* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 567. A gregarious parasite of *Charadra deridens* Guen. (Noctuidae).]

[*A. choreuti* Vier. Proc. U. S. Nat. Mus., 1912, **42**: 627. Recorded as a parasite of *Choreutis carduiella* Kf. (Glyphipterygidae), and the grape leaf-roller, *Desmia funeralis* Hbn.]

A. cinctiformis Vier. Proc. U. S. Nat. Mus., 1911, **40**: 176. Ithaca; McLean, Je–Jl; Malloryville, Je, Caroline to Harford, Ellis to Slaterville, Slaterville to Caroline, Je, *MacG&Bdy*; Mud Cr., Tompkins Co, Je.

A. clisiocampae Ashm. N. H. Agr. Exp. Sta., 1903, Bull. 6, p. 229. Auburn, *BAPorter*; Ithaca, *CLLiu* (Mues-CU); **LI**: Brooklyn, Aug, *Schott* (Gahan). A rather uncommon solitary parasite of the small larvae of the apple-tree tent-caterpillar.

[*A. compressus* Mues. Can. Ent., 1919, **51**: 114. Occurs throughout the New England States and undoubtedly is to be found in NY. Recorded as a parasite of *Hypoprepia* sp.]

[*A. conanchetorum* Vier. Conn. Geol. and Nat. Hist. Surv., 1916, Bull. 22, pp. 191, 199.]

A. congregatus (Say). Bost. Journ. Nat. Hist., 1836, **1**: 262. Cranberry L., *Htly* (Mues); Ithaca, Aug (Mues-CU). An exceedingly abundant and widely distributed gregarious parasite of the larvae of a great variety of Sphingidae. Among its hosts are the following species: the tomato worm, *Phlegethontius quinquemaculata* Haworth; the tobacco worm, *P. sexta* Joh.; *Dolba hylaeus* Drury; the hog caterpillar, *Ampeloeca myron* Cramer; Abbott's sphinx, *Sphecodina abbotti* Swainson; and the catalpa sphinx, *Sphinx catalpae* Boisd.

A. consimilis Vier. Proc. U.S. Nat. Mus., 1911, **40**: 177. McLean, Jl (Mues-CU); **LI**, type locality.

[*A. crambi* Weed. Ill. State Lab. Nat. Hist., 1887, Bull. 3, **3**: 8. Rather widely distributed east of the Mississippi. A parasite of various species of Crambus.]

A. crassicornis (Prov.). Addit. fauna Can. Hymen., 1886, pp. 139, 142. McLean, Aug 1 (Mues-CU).

A. cyaniridis Rly. Scudder, S. H., Butterflies eastern U. S., 1889, p. 1903. Ellis to Slaterville, Je 13, *MacG&Bdy* (Mues–CU). A parasite of *Lycaenopsis pseudargiolus* B. & L.

A. delicatus How. U.S. Bur. Ent., Tech. Ser., 1897, Bull. 5, p. 54. Ithaca, Je 25 (Mues-CU); **LI**: Brooklyn. A parasite of the white-marked tussock moth, *Hemerocampa leucostigma* S. & A.

[*A. diacrisiae* Gahan. Proc. U.S. Nat. Mus., 1917, **53**: 198. Throughout the eastern States. A gregarious parasite of certain Arctiidae, including the common yellow bear, *Diacrisia virginica* Fab.]

[*A. dolicocephalus* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 503.]

[*A. edwardsii* Rly. Scudder, S. H., Butterflies eastern U.S., 1889, p. 1901. A parasite of the red admiral, *Vanessa atalanta* L.]

[*A. empretiae* Vier. Proc. U.S. Nat. Mus., 1913, **44**: 562. A gregarious parasite of the saddle-back caterpillar, *Sibine stimulea* Clem.]

A. ensiger (Say). Bost. Journ. Nat. Hist., 1836, **1**: 260. Axton, Je, *M&H* (Mues-CU); Oswego; Spencer L., Je (Mues-CU); **LI.**

A. euchaetis Ash. Proc. Ent. Soc. Wash., 1897, **4**: 159. Cambridge, Meadowbrook, *JVSchaffner*. A very abundant parasite of the milkweed tussock caterpillar, *Euchaetias egle* Drury.

A. euphydryidis Mues. Proc. U. S. Nat. Mus., 1920, **58**: 564. McLean, May 27, 1909 (Mues-CU). A parasite of the Baltimore, *Euphydryas phaeton* Drury.

A. femur-nigrum (Prov.). Addit. fauna Can. Hymen., 1886, pp. 139, 142. Axton, Je (M&H-CU); Peru, Je (Mues-CU); Spencer L., Je (Mues-CU); Ithaca, Je–Aug, Mud Cr., Je, Dryden L., Je (Mues-CU); McLean, Jl (Mues-CU); Slaterville to Caroline, Je, Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); Middletown, Jl, *CSSpooner* (Mues-CU). Common in the northeastern States and in Canada.

[*A. fiskei* Vier. Proc. U.S. Nat. Mus., 1910, **38**: 379. A parasite of various species of Olene (Lymantriidae).]

[*A. flaviconchae* Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 308. Parasitic on the army worm, *Cirphis unipuncta* Haworth, the sulphur butterfly, *Eurymus philodice* Godart, and the clover hypena, *Plathypena scabra* Fab.]

A. forbesi Vier. Proc. Ent. Soc. Wash., 1910, **11**: 208. Ithaca, Jl (Mues-CU). Doubtless to be found throughout the State. A common species. Recorded as a parasite of the cutworms, *Cirphis unipuncta* Haworth, *Polia renigera* Stephens, and *Feltia* sp.

A. fumiferanae Vier. Proc. U.S. Nat. Mus., 1912, **42**: 139. Cranberry L., *Htly* (Mues). A parasite of *Harmologa fumiferana* Clem. (Tortricidae).

A. glomeratus (L.). Syst. Nat., Ed. 10, 1758, **1**: 568. Ithaca, Jl–Aug (Mues-CU). A cosmopolitan and very important parasite of the larvae of the cabbage butterfly, *Pieris rapae* L.

A. griffini Vier. Proc. U.S. Nat. Mus., 1911, **40**: 177. Waterville (Mues-CU). A very common and widely distributed parasite of various cutworm larvae.

[*A. harti* Vier. Proc. Ent. Soc. Wash., 1910, **11**: 209. A parasite of *Pyrausta penitalis* Grt. and *P. ainsliei* Hein. (Pyralidae).]

A. hemileucae Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 309. Karner, *Felt*, reared from *Hemileuca maia* Drury (Saturniidae).

A. hydriae Mues. Proc. U.S. Nat. Mus., 1920, **58**: 561. Ithaca, Sep 9 (Mues-CU). A common parasite of *Calocalpe undulata* L. (Geometridae).

A. laeviceps Ashm. Bull. Colo. Biol. Assoc., 1890, **1**: 17. Ithaca, bred from a noctuid (Ashm-CU). Widely distributed, but apparently restricted to the higher elevations. A gregarious parasite of cutworms.

A. limenitidis (Rly.). Third Ann. Rep. Ins. Mo., 1871, p. 158. Ithaca to Ellis, Je, *MacG&Bdy* (Mues-CU). Occurs at least from Mo. to Me. A not uncommon parasite of the small larvae of the viceroy, *Basilarchia disippe* Godd.

A. lunatus (Pck.). Proc. Bost. Soc. Nat. Hist., 1881, **21**: 28. Recorded from NY. A rather widely distributed solitary parasite of the small larvae of various species of Papilio. The cocoon is large and deep yellow in color.

A. militaris Walsh. Trans. Ill. State Agric. Soc., 1861, **4**: 27. Occurs throughout NY. A common and widely distributed gregarious parasite of the army worm, *Cirphis unipuncta* Haworth.

A. murtfeldtae Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 159. Cranberry L., *Htly* (Mues); Ithaca (Mues-CU). Found from Mass to Mo. A gregarious parasite of geometrid larvae.

[*A. nemoriae* Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 160. A parasite of various Geometridae, including *Haematopis grataria* Fab., *Eupithecia miserulata* Grt., and *Pleuroprucha insulsaria* Guen.]

[*A. nephoptericis* (Pck.). Proc. Essex Inst., 1864, **4**: 122. A parasite of the larva of *Vitula edmansii* Pck. (Pyralidae), which feeds on the comb in nests of bumblebees.]

[*A. nigrovariatus* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 523.]

A. parastichtidis Mues. Homer, Jl 2, 1908 (Mues-CU). On *Parastichtis bicolorago* Guen. (Noctuidae).

A. ornigis Weed. Ill. State Lab. Nat. Hist., 1897, Bull. 3, p. 6. Throughout the State. Reared by GWHerrick from the maple case-bearer, *Paraclemensia acerifoliella* Fitch; also recorded from *Ornix geminatella* Pck. (Gracilariidae), and various species of Lithocolletes. A common parasite of many different leaf-mining Lepidoptera.

[*A. orobenae* Fbs. Twelfth Rep. Nox. Ins. Ill., 1882, p. 104. Parasitic on the larvae of the cross-striped cabbage-worm, *Evergestis rimosalis* Guen.]

A. paleacritae Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 313. Dryden L., Je (Mues-CU). Throughout at least the northeastern States. A solitary parasite of the cankerworms, *Alsophila pometaria* Harr. and *Paleacrita vernata* Peck.

A. papaipemae Mues. Proc. U.S. Nat. Mus., 1920, **58**: 526. Rye, type locality, reared by HCBird from *Papaipema nebris* Guen. and *P. maritima* Bird (Noctuidae).

[*A. phigaliae* Mues. Can. Ent., 1919, **51**: 113. A parasite of *Phigalia titea* Cram. (Geometridae). The cocoons are grouped and are rather strongly ribbed, resembling cocoons of Microplitis.]

A. phobetri Roh. Proc. U.S. Nat. Mus., 1915, **49**: 228. Cranberry L., *Htly* (Mues). A common gregarious parasite of the banded tussock caterpillar, *Halisidota tesselaris* S. & A.

[*A. pholisorae* Rly. Scudder, S. H., Butterflies eastern U.S., 1889, p. 1904. A parasite of *Pholisora catullus* Fab. (Hesperiidae).]

A. polychrosidis Vier. Proc. U.S. Nat. Mus., 1912, **42**: 615. Ithaca; McLean; Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); Rhinebeck, Jl, *Cy* (Mues-CU). Probably throughout the State. A parasite of the grape berry moth, *Polychrosis viteana* Clem., *P. liriodendrana* Kf., the oblique-banded leaf-roller, *Cacoecia rosaceana* Harr., and other species with similar habits.

[*A. pyralidis* Mues. Proc. U.S. Nat. Mus., 1920, **58**: 552. Occurs at least from Ill. to Mass. A parasite of *Nomophila noctuella* Denis & Schiff. (Pyralidae), and the garden web-worm, *Loxostege similalis* Guen. The cocoons are very small, pure white, and in groups.]

[*A. pyraustae* Vier. Proc. U.S. Nat. Mus., 1912, **42**: 626. A common parasite of *Pyrausta futilalis* Lederer (Pyralidae). The cocoons are white, in groups, and usually formed within the thin cocoon made by the mature host larva.

A. radiatus Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 162. Ithaca, Je 20 (Ashm-CU).

A. rohweri Mues. (*nigripes* Rohw.). Proc. U.S. Nat. Mus., 1920, **58**: 550. Ithaca, Jl (Mues-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU); McLean, Aug 31 (Mues-CU).

A. robiniae (Fitch). Fifth Rep. Ins. N. Y., Trans. N. Y. State Agric. Soc., 1858, p. 836. Described from NY. A parasite of *Recurvaria robiniella* Fitch (Gelechiidae).

A. rufocoxalis Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 310. Batavia. A parasite of the army worm, *Cirphis unipuncta* Haworth.

[*A. sarrothripae* Weed. Ill. State Lab. Nat. Hist., 1897, Bull. 3, p. 3. A gregarious parasite of *Nycteola revayana* Scop. (Noctuidae), *Melalopha inclusa* Hbn. (Notodontidae), and *Peronea permutana* Duponchel (Tortricidae).]

A. schizurae Ashm. Proc. Ent. Soc. Wash., 1897, **4**: 162. Rochester. A parasite of *Schizura unicornis* S. & A. (Notodontidae).

[*A. scitulus* Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 310. Widely distributed, at least east of the Mississippi. A gregarious parasite of the yellow bear, *Diacrisia virginica* Fab., and *Acronycta* spp. (Noctuidae).]

[*A. smerinthi* Rly. Trans. St. Louis Acad. Sci., 1881, **4**: 311. A widely distributed and common gregarious parasite of the larvae of various Sphingidae, including the twin-spotted sphinx (*Smerinthus jamaicensis geminatus* Say), the blind-eyed sphinx (*Paonias excaecatus* S. & A.), and *Ceratomia undulosa* Wlk.]

A. terminalis Gahan. Proc. Ent. Soc. Wash., 1912, **14**: 2. **LI**, type.

[*A. tischeriae* Vier. Proc. U.S. Nat. Mus., 1912, **42**: 140. A parasite of the trumpet miner, *Tischeria malifoliella* Clem.]

[*A. xylinus* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 262. A very widely distributed and very abundant parasite of cutworms. The cocoons are in groups, and are encased in a ball of white silk.]

SUBFAMILY **BRACONINAE**

(*Agathidinae* auctt.)

(The host relations and habits of only a comparatively small number of species of this subfamily are known; but apparently all are parasitic on lepidopterous larvae.)

AGATHIS Latreille

A. femorator Prov. Nat. Can., 1880, **12**: 177. Ithaca, Aug 20–Sep 1 (Morr-CU).

A. perforator Prov. Nat. Can., 1880, **12**: 177. Oswego; Ithaca, Aug–Sep (Morr-CU).

A. rubripes Cress. Trans. Am. Ent. Soc., 1872, **4**: 183. Slaterville to Caroline. Je, Ellis to Slaterville, Je, Dryden L., Mud Cr., Malloryville, Je, *MacG&Bdy* (Morr-CU).

[*A. tibiator* Prov. Nat. Can., 1880, **12**: 177.]

BRACON Jurine, Fab., not auctt.[138]

(*Cremnops* auctt.)

B. comstocki Morr. Proc. U.S. Nat. Mus., 1917, **52**: 323. Ithaca, Je–Jl (Morr-CU); Ithaca to Ellis; Freeville.

B. montrealensis Morr. Proc. U.S. Nat. Mus., 1917, **52**: 326. Ithaca, Jl–Sep (Morr-CU).

[*B. nigrosternum* Morr. Proc. U.S. Nat. Mus., 1917, **52**: 332.]

B. virginiensis Morr. Proc. U.S. Nat. Mus., 1917, **52**: 341. Ithaca, Aug 16 (Morr-CU).

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[138] Monograph of the nearctic Hymenoptera of the genus Bracon Fabricius. By Harold Morrison. Proc. U. S. Nat. Mus., 1917, **52**:305–343.

CRASSOMICRODUS Ashmead

C. divisus (Cress.). Can. Ent., 1873, **5**: 52. Ithaca, Aug (Ashm-CU).

BASSUS Fabricius

(*Microdus* auctt.)

B. agilis (Cress.). Can. Ent., 1873, **5**: 52. Ithaca, Je–Jl (Ashm-CU). Apparently the most common species in this genus. A widely distributed parasite of leaf-rollers, particularly of species of Archips.

[*B. albocinctus* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 639. Occurs throughout the eastern States.]

B. annulipes (Cress.). Can. Ent., 1873, **5**: 53. Ithaca, Aug (Mues-CU); Mud Cr., Je, *MacG&Bdy* (Mues-CU).

B. bicolor (Prov.). Nat. Can., 1880, **12**: 179. McLean, Sep 19 (Mues-CU).

B. calcaratus (Cress.). Can. Ent., 1872, **5**:51. McLean, Sep 15 (Mues-CU). Common in the northeastern States at least. A parasite of *Acrobasis caryivorella* Rag., *A. betulella* Hulst (Pyralidae), and *Gelechia trialbamaculella* Chamb. (Gelechiidae).

[*B. carpocapsae* Cush. Proc. U.S. Nat. Mus., 1915, **48**: 508. A parasite of the codling moth, *Carpocapsa pomonella* L.]

B. cinctus (Cress.). Can. Ent., 1873, **5**: 53. McLean, Aug 1 (Mues-CU); NYC.

[*B. coleophorae* Roh. Proc. U.S. Nat. Mus., 1915, **49**: 230. Parasitic on the larva of *Coleophora leucochrysella* Clem., and doubtless also on other species of that genus.]

[*B. discolor* (Cress.). Can. Ent., 1873, **5**: 52.]

B. earinoides (Cress.). Can. Ent., 1873, **5**: 52. New Russia, Aug 11, *Bdy* (Mues-CU); Baldwinsville, Jl (Ashm-CU); Ithaca, Je–Jl (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); **LI**: Farmingdale, Jl, *Morr* (Mues-CU). A parasite of *Spilonota ocellana* Schiff., the common bud moth on apple.

[*B. grapholithae* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 639. Widely distributed over at least the eastern half of the US.]

B. imitatus (Cress.). Can. Ent., 1873, **5**: 51. Ithaca, Jl–Aug (Ashm-CU).

B. nigricoxus (Prov.). Addit. fauna Can. Hymen., 1886, pp. 137–138. Oswego.

B. perforator (Prov.). McLean, Aug 22 (Mues-CU).

B. sanctus Say. Bost. Journ. Nat. Hist., 1836, **1**: 249. Ithaca, Jl (Ashm-CU). Commonly collected in the eastern States. Nothing is known of its host relations.

[*B. simillimus* (Cress.). Can. Ent., 1873, **5**: 51.]

B. laticinctus Cress. Can. Ent., 1873, **5**: 53. Ithaca, reared from the clover-seed caterpillar, *Laspeyresia interstinctana* Cl., by LPWehrle.

EARINUS Wesmael

E. limitaris (Say). Bost. Journ. Nat. Hist., 1836, **1**: 250. Waterville (Mues-CU); Ithaca, abundant in early spring (Bdy-CU); McLean, Apr 17, *Babiy* (Bdy-CU); **SI**, Ap 16 (Ds).

SUBFAMILY BLACINAE [139]

The Blacinae are only imperfectly known from the standpoint of classification, and also as regards habits and biology. The species of some genera appear to be exclusively parasites of lepidopterous larvae, while those of other genera parasitize Coleoptera, and, in a few instances, Diptera.

BLACUS Nees

B. lactucaphis (Fitch). First Rep. Ins. N.Y., 1854, p. 136. Described from NY, as an Aphidius.

[*B. orchesiae* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 645. Recorded as a parasite of *Orchesia castanea* Melsh. (Melandryidae).]

ORGILUS Haliday

O. gelechiaevora Cush. Proc. U.S. Nat. Mus., 1920, **58**: 291. A parasite of *Gelechia trialbamaculella* Chamb.

[*O. kearfotti* Ashm. Journ. N. Y. Ent. Soc., 1903, **11**: 144. A parasite of *Recurvaria juniperella* Kf.]

EUBADIZON Nees

[*E. americanus* Cress. Can. Ent., 1872, **4**: 230. Occurs throughout the northeastern States and in Canada.]

[*E. gracilis* Prov. Nat. Can., 1880, **12**: 171. Range extends at least from Canada to Va. It has been recorded as a parasite of the oriental peach moth, *Laspeyresia molesta* Busck.]

[*E. phymatodis* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 644.]

E. pleuralis Cress. McLean, Je 24, *Sib* (Mues-CU).

BRACHISTES Wesmael

B. magdali (Cress.). Psyche, 1878, **2**: 189. Syracuse. A parasite of the larvae of *Magdalis barbita* Say and *M. olyra* (Hbst.) (Curculionidae).

B. major (Cress.). Can. Ent., 1872, **4**: 229. Occurs in NY.

[*B. tibiator* (Cress.). Can. Ent., 1872, **4**: 229. Said to be a parasite of the strawberry weevil, *Anthonomus signatus* Say.]

SYRRHIZUS Foerster

[*S. diabroticae* Gahan. Ohio Journ. Sci., 1922, **22**: 141. A parasite of the adult striped cucumber-beetle, *Diabrotica vittata* (Fab.).]

LEIOPHRON (Nees) Haliday

[*L. americanus* (Ashm.). Journ. Cincinnati Soc. Nat. Hist., 1895, **17**: 47. A parasite of the Hessian fly.]

SUBFAMILY ICHNEUTINAE

The subfamily Ichneutinae constitutes a small group, containing but few described species. Those forms the habits of which are known, attack sawfly larvae.

[139] Includes Calyptinae, Leiophroninae, and Blacinae of Szepligeti's classification.

ICHNEUTES Nees

[*I. bicarinatus* (Ashm.). Can. Ent., 1891, **23**: 4.]

[*I. bicolor* Cress. Can. Ent., 1872, **4**: 230.]

I. fulvipes Cress. Can. Ent., 1872, **4**: 231. Ithaca, May 26 (Mues-CU); McLean, Aug 12, *SRobinson* (Mues-CU).

ICHNEUTIDEA Ashmead

I. secunda Roh. Ent. News, 1908, **19**: 149. Saranac L., Aug (Mues-CU); Rochester, Jl, *Leon* (Mues-CU); Ithaca, Sep (Mues-CU).

SUBFAMILY CARDIOCHILINAE

CARDIOCHILES Nees

The genus Cardiochiles comprises the subfamily Cardiochilinae. But little is known regarding the habits and host relations of the various species.

C. tibiator (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, **2**: 323. Ithaca, Jl (Mues-CU). Occurs from Canada to Fla.

[*C. viator* (Say). Bost. Journ. Nat. Hist., 1836, **1**: 258. Distributed over most of the US.]

SUBFAMILY MACROCENTRINAE

MACROCENTRUS Curtis

M. aciculatus Prov. Addit. fauna Can. Hymen., 1888, p. 380. Thousand Isls., Sep (Ashm-CU).

M. amicroploides Vier. Proc. U.S. Nat. Mus., 1913, **43**: 579. Bethany Center, type locality. A parasite of the apple leaf-roller, *Archips argyrospila* Wlk.

M. cerasivoranae Vier. Proc. U.S. Nat. Mus., 1912, **42**: 623. Ithaca, type locality. The type was reared from the ugly-nest tortricid, *Archips cerasivorana* Fitch, by GWHerrick. This is a very large species, and a very common parasite of the above-named host.

[*M. delicatus* Cress. Trans. Am. Ent. Soc., 1872, **4**: 178. Recorded as a parasite of *Mineola indigenella* Zell. (Pyralidae), the codling moth, *Carpocapsa pomonella* L., and *Archips fervidana* Clem. (Tortricidae).]

M. iridescens French. Can. Ent., 1880, **12**: 43. Ithaca, Jl–Sep, at light (Ashm-CU). A parasite of *Ennomos subsignarius* Hbn. (Geometridae).

M. nuperus Cress. Trans. Amer. Ent. Soc., 1872, **4**: 178. Ithaca, Jl, at light (Ashm-CU).

M. plesius Vier. McLean, Je 24–Aug 23 (Mues-CU).

M. pyraustae Vier. McLean, Aug 20–24, *Sib* (Mues-CU).

M. terminalis (Ashm.) (*Zele terminalis* Ashm.). Proc. U.S. Nat. Mus., 1888, p. 300. Ithaca, Je, from Archips (CU).

M. uniformis Prov. Nat. Can., 1880, **12**: 173. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU); **LI**: Flatbush, *Zab* (AM).

SUBFAMILY **ZELIINAE**[140]

ZELE Curtis

Z. truncator (Say). Contrib. Maclur. Lyc. Phil., 1828, **2**: 78. Ithaca, Jl, at light (Ashm-CU).

SUBFAMILY **HELCONINAE**

(The species of this rather poorly known group appear on the whole to be parasitic on the larvae of wood-boring Coleoptera.)

EUMACROCENTRUS Ashmead

[*E. americanus* (Cress.). Can. Ent., 1873, **5**: 84. Occurs at least from Canada to Va.]

HELCONIDEA Viereck

H. albitarsis (Cress.). Can. Ent., 1873, **5**: 83. Huguenot Pk. (Mues-CU).

H. borealis (Cress.). Can. Ent., 1873, **5**: 83. Indian Falls, Je (Mues-CU). Northeastern States. Parasitic on cerambycid larvae.

H. ligator (Say). Keating's Narrative of an expedition to the source of St. Peter's River, etc., 1824, **2**: 323. Syracuse, reared by B&S from coleopterous larvae in hickory; New Baltimore, from *Neoclytus acuminatus* (Fab.) (Cerambycidae) (AM); Nyack, *Zab* (AM).

HELCON Nees

(*Gymnoscelus* Foerster)

[*H. pedalis* Cress. Can. Ent., 1873, **5**: 85. Throughout the northeastern States. Recorded as a parasite of a larva of Xylotrechus (Cerambycidae) in dead hemlock.]

SUBFAMILY **OPIINAE**[141]

(The members of this subfamily are mostly parasitic on phytophagous Diptera belonging to the families Agromyzidae, Trypetidae, and Anthomyiidae.)

OPIUS Wesmael

O. anthomyiae Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 654. Honeoye Falls, Jl, *Leon* (Mues-CU); Ithaca, Aug (Mues-CU). Parasitic on an anthomyiid mining the leaves of dock.

O. apicalis Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 85. Ithaca, Je–Jl (Mues-CU); Ellis to Slaterville, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).

O. bruneipes Gahan. Can. Ent., 1913, **45**: 148. Chipmunk Swamp, Mix Cr. Val., Cattaraugus Co, Je (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).

O. cincticornis Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 78. Oswego, type locality.

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[140] Included in Macrocentrinae by Szepligeti.

[141] A revision of the North American ichneumon-flies of the subfamily Opiinae. By A. B. Gahan. Proc. U. S. Nat. Mus., 1915, **49**:63–95.

O. cinctus Prov. Addit. fauna Can. Hymen., 1886, p. 124. Potsdam, Jl (Mues-CU); Norton's Landing, Cayuga L., *SmHH* (Mues-CU); Ellis to Slaterville, Caroline to Harford, Je, *MacG&Bdy* (Mues-CU).

O. cupidus Gahan. Proc. Ent. Soc. Wash., 1919, **21**: 162. NYC, type locality, *HBShaw*; **LI:** Brooklyn, reared from *Pegomyia hyoscyami* (Panzer) by Montague Free.

O. dimidiatus (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 647. Ithaca, Jl (Mues-CU). A common parasite of *Agromyza pusilla* Meig.

[*O. ferrugineus* Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 75.]

O. foveolatus Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 654. Norton's Landing, Cayuga L., *SmHH*, Ithaca, Jl (Mues-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Mues-CU).

O. fuscipennis Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 79. McLean, Aug 19, *SRobinson* (Mues-CU); Ithaca, Jl (Mues-CU).

O. luteiceps Vier. Trans. Kans. Acad. Sci., 1905, **19**: 271. Mix Cr. Val., Cattaraugus Co, Je (Mues-CU).

O. mandibularis Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 81. Pine I. (FrostSW), from *Pegomyia pusilla* Meig.

O. politus Prov. Nat. Can., 1883, **14**: 16. Ithaca, May–Je (Mues-CU).

O. provancheri D.T. Cat. Hymen., 1898, **4**: 64. Axton, Je, *M&H* (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Freeville, Jl (Mues-CU); McLean, Aug 31 (Mues-CU).

O. quebecensis (Prov.). Nat. Can., 1881, **12**: 201, fig. 28. Ithaca, reared from *Pegomyia calyptrata* Zett. by FrostSW.

O. sanguineus Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 655. Recorded from NY. A parasite of Trypetidae.

O. striativentris Gahan. Proc. U.S. Nat. Mus., 1915, **49**: 89. **LI:** Westbury, Ap 7, from *Phytomyza ilicis* Curtis (Felt).

O. succineus Gahan. Can. Ent., 1913, **45**: 149. Slaterville to Caroline, Je, *MacG&Bdy* (Mues–CU); Florida (FrostSW), from *Agromyza parvicornis* Lw.; Pine I. (FrostSW), from *A. pusilla* Meig.

O. tibialis Ashm. Can. Ent., 1893, **25**: 79. Durlandville (FrostSW), from *Agromyza melanopyga* Lw.

O. utahensis Gahan. Can. Ent., 1913, **45**: 145. Florida (FrostSW), from *Agromyza parvicornis* Lw.

SUBFAMILY EUPHORINAE

But little is known regarding the habits and biology of members of this group, but most of the species are apparently parasitic on various Coleoptera.

PERILITUS Nees

[*P. epitricis* Vier. Proc. U.S. Nat. Mus., 1912, **42**: 625. Reported from N. J., and probably occurs in NY. A parasite of the tobacco flea-beetle, *Epitrix parvula* (Fab.).]

[*P. gastrophysae* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 641. Recorded as a parasite of *Gastroidea cyanea* Melsh. (Chrysomelidae).]

COSMOPHORUS Ratzeburg

C. hopkinsi Ashm. Trans. Am. Ent. Soc., 1896, **23**: 216. Reported from NY as a parasite of *Pityokteines sparsus* (Lec.). The type, from N. J., was reared from *Polygraphus rufipennis* (Kby.). (Both Scolytidae.)

WESMAELIA Foerster

W. americana Myers. Proc. U.S. Nat. Mus., 1917, **59**: 293. Ithaca, Aug 30 (Mues-CU), allotype. This is the only species of this genus known to occur in the US.

EUPHORUS Nees

E. mellipes Cress. Can. Ent., 1872, **4**: 227. Ithaca, May (Ashm-CU); Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).

E. scitulus Cress. Can. Ent., 1872, **4**: 227. Norton's Landing, Cayuga L., *SmHH* (Ashm-CU).

EUPHORIANA Gahan

[*E. uniformis* Gahan. Proc. U.S. Nat. Mus., 1913, **46**: 433, fig. 1. A parasite of *Meromyza americana* Fitch.]

DINOCAMPUS Foerster

D. coccinellae (Schr.). Fauna Boica., 1802, **2**: 310. Axton, Je, *M&H* (Mues-CU); Victor, Je (Mues-CU). A cosmopolitan species, which is an internal parasite of adult Coccinellidae. It has been referred to in literature under a variety of names, including *Dinocampus terminatus* Nees, *Perilitus americanus* Rly., and *Euphorus sculptus* Cress.

SUBFAMILY METEORINAE [142]

This subfamily is comprised of the single genus Meteorus, most of the species of which are internal parasites of lepidopterous larvae, although a few are apparently parasitic on Coleoptera. Some of them are very abundant, and exert a decided check on the increase of injurious species.

METEORUS Haliday

M. angustipennis Mues. Proc. U.S. Nat. Mus., 1923, **63**: 20. This species has been taken at Ithaca.

[*M. autographae* Mues. Proc. U.S. Nat. Mus., 1923, **63**: 30. Occurs throughout the eastern part of the US, having been recorded from Canada to Fla. It has been reared from larvae of the cabbage looper (*Autographa brassicae* Rly.), the army worm (*Cirphis unipuncta* Haworth), the alfalfa borer (*Eurymus eurythemae* Boisd.), and the clover hypena (*Plathypena scabra* Fab.).]

M. bakeri Cook & Ds. Mich. Agr. Exp. Sta., 1891, Bull. 73, p. 9. Oswego. A parasite of the fall web-worm, *Hyphantria cunea* Drury, but not nearly so abundant as *M. hyphantriae,* which also attacks this host.

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[142] A revision of the North American species of ichneumon-flies belonging to the genus Meteorus Haliday. By C. F. W. Muesebeck. Proc. U.S. Nat. Mus., 1923, **63**: 1–144.

M. communis (Cress.). Can. Ent., 1872, **4**: 82. Occurs throughout the State. A widely distributed and abundant parasite of a variety of hosts, but most frequently reared from Noctuidae, especially the army worm (*Cirphis unipuncta* Haworth) and cutworms. Also recorded from the tent caterpillar (*Malacosoma americana* Fab.) and the green-fruit worm (*Grapholitha laticinerea* Grt.).

[*M. datanae* Mues. Proc. U.S. Nat. Mus., 1923, **63**: 38. A parasite of *Datana integerrima* G. & R., *D. ministra* Drury, and *D. angusii* G. & R. (Notodontidae).]

M. dimidiatus (Cress.). Can. Ent., 1872, **4**: 83. Throughout the State. Occurs from Calif. to Me. Recorded as a parasite of the grape-leaf folder, *Desmia funeralis* Hbn.

[*M. hicoriae* Mues. Proc. U.S. Nat. Mus., 1923, **63**: 25. Type locality is Harrisburg, Pa. The species is undoubtedly in NY.]

M. humilis (Cress.). Can. Ent., 1872, **4**: 84. Oswego, Spencer L. The species has also been referred to in literature under the names *M. robustus* (Prov.), *M. orchesiae* Ashm., and *M. agilis*. The recorded hosts include *Orchesia castanea* Melsh. (Melandryidae), *Platydema ellipticum* (Fab.) (Tenebrionidae), and *Tinea oregonella* Busck.

M. hyphantriae Rly. U.S. Dept. Agric. Div. Ent., 1887, Bull. 10, p. 49. Occurs throughout NY. A parasite of the fall web-worm, *Hyphantria cunea* Drury, especially; but has been reared from various hosts, including the tent caterpillar (*Malacosoma americana* Fab.), the forest tent caterpillar (*M. disstria* Hbn.), the white-banded tussock caterpillar (*Hemerocampa leucostigma* S. & A.), *Neleucania albilinea* Hbn. (Noctuidae), the fall cankerworm (*Alsophila pometaria* Harr.), and the spring cankerworm (*Paleacrita vernata* Peck).

[*M. indagator* (Rly.). Fourth Ann. Rep. Ins. Mo., 1872, p. 43. Widely distributed from Calif. to Mass. A parasite of leaf-rollers, especially of various species of Acrobasis and Mineola.]

[*M. loxostegei* Vier. Proc. U.S. Nat. Mus., 1911, **39**: 401. Occurs from Colo. to Mass. Must certainly occur in NY. Parasitic on the larvae of the sugar-beet web-worm, *Loxostege sticticalis* L., *Pyrausta futilalis* Lederer, and the European corn-borer, *P. nubilalis* Hbn.]

M. maximus Mues. Proc. U.S. Nat. Mus., 1923, **63**: 13. New Salt, Jl, 1903 (ESSouthworth).

[*M. niveitarsis* (Cress.). Can. Ent., 1872, **4**: 81. Throughout the northeastern States. Host unknown.]

[*M. pallitarsis* (Cress.). Can. Ent., 1872, **4**: 80. Distribution same as for *niveitarsis*.]

M. politus (Prov.). Addit. fauna Can. Hymen., 1886, p. 126. McLean, Aug 24–31, *Sib*, *SRobinson* (Mues-CU). Occurs in the Canadian provinces Quebec and Ontario, and in the northeastern US.

M. proximus (Cress.). Can. Ent., 1872, **4**: 83. Oswego; Stony I.; Thousand Isls.

M. tauricornis (Prov.). Nat. Can., 1880, **12**: 168. Oswego; Saranac L.; Spring Lake; Ithaca; Slaterville; McLean, Aug 26, *SRobinson* (Mues-CU); **LI:** Flatbush.

M. tibialis Mues. Proc. U.S. Nat. Mus., 1923, **63**: 23. Syracuse, type locality, *Drk*.

M. trachynotus Vier. (*archipsidis* Vier.). Proc. U.S. Nat. Mus., 1912, **42**: 142. Spring Lake, *Bdy* (Mues-CU); Youngstown; Bethany Center, Genesee Co. (type of *archipsidis*), reared from *Archips argyrospila* Wlk.; McLean, July 20–

Aug 24 (Mues-CU); Little Falls. Additional hosts are *Harmologa fumiferana* Clem., and the strawberry leaf-roller, *Ancylis comptana* Froelich (both Tortricidae).

M. vulgaris (Cress.). Can. Ent., 1872, **4**: 83. McLean, Jl 10–Aug 24 (Mues-CU). Probably the most common and most widely distributed of the North American species. Occurs throughout the US and much of Canada. An abundant parasite of Noctuidae of the cutworm type. Recorded from various species of Feltia, Euxoa, and Scotogramma.

SUBFAMILY APHIDIINAE [143]

All the species of the Aphidiinae are internal parasites of aphids. The entire developmental period is spent within the body of the host, the adult parasite finally emerging by cutting a circular hole in the aphid shell. The host is killed at the time when the parasitic larva completes its growth, and accordingly aphids which contain pupae or adults of the parasite are readily distinguished in the field. As a rule development is very rapid, most species passing through many generations in a season. Some of them are very important parasites of particularly injurious aphids. But they are themselves subject to extensive parasitism by certain secondary parasites, especially by cynipoids belonging to the genus Charips and by various species of chalcidoids.

EPHEDRUS Haliday

E. incompletus Prov. Addit. fauna Can. Hymen., 1886, p. 156. Lockport, Je 14, from *Myzus cerasi* (Fab.) (Bdy-CU). Widely distributed over the eastern half of the US and in Canada. Recorded as a parasite of *Myzus cerasi* (Fab.), *Macrosiphum rosae* (L.), and *Tritogenaphis rudbeckiae* (Fitch).

[*E. nitidus* Gahan. Proc. U.S. Nat. Mus., 1917, **53**: 195. A parasite of the cabbage aphis, *Brevicoryne brassicae* (L.).]

PRAON Haliday

[*P. americanus* (Ashm.). Proc. U.S. Nat. Mus., 1888, **11**: 669. Recorded as attacking the apple grain aphid, *Rhopalosiphum prunifoliae* (Fitch).]

P. cerasaphis (Fitch). First Rep. Ins. N.Y., 1855, p. 138. Described from NY material reared from the cherry aphid.

P. humalaphidis Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 657. Richfield Sps., type locality.

P. simulans (Prov.). Addit. fauna Can. Hymen., 1856, p. 153. Ithaca, Jl, *Griswold* (Gahan-CU). A parasite of *Tritogenaphis rudbeckiae* (Fitch); also reared at Ithaca by Miss Griswold from *Illinoia pisi* (Kalt.) and *Macrosiphum cornelli* Patch.

P. viburnaphis Fitch. First Rep. Ins. N.Y., 1856, p. 137. Described from NY. The identity of the species is somewhat uncertain. Gahan (Md. Agr. Exp. Sta., 1911, Bull. 152, p. 197) states that a specimen in the U.S. Nat. Mus., which is labeled as type but which does not fully agree with the description, is a species of Lysiphlebus. The species is here provisionally retained in the genus Praon.

APHIDIUS Nees

[*A. avenaphis* (Fitch). Sixth Rep. Ins. N. Y., 1865, p. 98. A parasite of the apple grain aphid, *Rhopalosiphum prunifoliae* (Fitch), and *Macrosiphum cerealis* (Kalt.).]

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[143] Aphidiinae of North America. By A. B. Gahan. Md. Agr. Exp. Sta., 1911, Bull. 152, p. 147–200.

[*A. crassicornis* Ashm. Can. Ent., 1891, **23**: 5.]

A. nigripes Ashm. N.Y. Mus., 1901, Bull. 47, p. 588. Saranac Inn, type locality, *Ndm.* Recorded as an efficient parasite of *Macrosiphum granaria* (Kby.).

A. phorodontis Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 662. Ithaca (CU). A parasite of *Phorodon mahaleb* Koch and *Rhopalosiphum dianthi* (Schr.).

[*A. polygonaphis* (Fitch). First Rep. Ins. N.Y., 1856, p. 136. This species has been referred to in literature under the names *Aphidius canadensis* Prov., *A. obscurus* Prov., *A. pallidus* Ashm., *A. nigriceps* Ashm., and *Lysiphlebus succineus* Vier. It is a parasite of *Tritogenaphis rudbeckiae* (Fitch) and *Illinoia liriodendri* (Monell).]

[*A. procephalis* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 659. Recorded as a parasite of *Procephalus* sp.]

[*A. ribis* Haliday. Ent. Mag., 1835, **2**: 101. A widespread parasite of *Cryptomyzus ribis* (L.).]

A. rosae Haliday. Ent. Mag., 1833, **1**: 261, and 1835, **2**: 197. Ithaca, *Griswold* (Gahan-CU), from *Illinoia pisi* (Kalt.). A common parasite of *Macrosiphum rosae* (L.).

LYSIPHLEBUS Foerster

L. testaceipes (Cress.). Rep. U.S. Com. Agr. for 1879, p. 208. Buffalo (Mues-CU). A very common species, occurring throughout the US as a parasite of a great variety of hosts, including *Aphis gossypii* Glov., *A. maidis* Fitch, *Hysteroneora setariae* (Thos.), *Brevicoryne brassicae* (L.), *Anuraphis maidiradicis* (Fbs.), *Cryptomyzus ribis* (L.), *Macrosiphum granaria* Kby., *M. cerasi* (Fab.), *M. rosae* (L.), *M. cucurbitae* (Thomas), and *Rhopalosiphum prunifoliae* (Fitch). The species has been referred to under a large number of names. For a complete record of this synonymy see Gahan, Md. Agr. Exp. Sta., 1911, Bull. 152, p. 186.

SUBFAMILY ALYSIINAE [144]

The Alysiinae, in so far as their habits are known, are parasitic on the larvae and pupae of Diptera. Some exert an important degree of control on injurious species, while others live as hyperparasites, attacking primary parasites of the family Tachinidae. But the group as a whole is very poorly understood, from the standpoint of biology as well as that of classification. Unquestionably there are many species belonging to this subfamily in New York, but the identification of most of these must await revision of the group.

APHAERETA Foerster

[*A. muscae* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 646. Common throughout the eastern States as a parasite of various Diptera.]

[*A. oscinidis* Ashm. Proc. U.S. Nat. Mus., 1888, **11**: 647.]

[*A. pallipes* (Say). Contrib. Maclur. Lyc. Phila., 1828, **2**: 77.]

CRATOSPILA Foerster

[*C. ridibunda* (Say). Contrib. Maclur. Lyc. Phila., 1828, **2**: 77.]

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[144] Includes Dacnusinae and Alysiinae of Szepligeti's system.

GRAMMOSPILA Foerster

G. triticaphis (Fitch). Sixth Rep. Ins. N.Y., Trans. N.Y. Agr. Soc., 1860, p. 840. NY, type locality. According to Gahan (Md. Agr. Exp. Sta., 1911, Bull. 152, p. 152), this species, which was described as an aphidiine in the genus Toxares, is probably a Grammospila.

BRACHYSTROPHA Foerster

B. quadriceps Ashm. N. Y. State Mus., 1901, Bull. 47, p. 587. Saranac Inn, type locality, *Ndm.*

COELINIDEA Viereck

[*C. ferruginea* Gahan. Proc. U.S. Nat. Mus., 1913, **46**: 434. A parasite of *Meromyza americana* Fitch.]

[*C. meromyzae* (Fbs.). Thirteenth Rep. Ins. Ill., 1884, **13**: 26. An abundant and widely distributed parasite of *Meromyza americana* Fitch. It attacks the egg of its host, but the parasitic larva does not mature until after the Meromyza has pupated.]

RHIZARCHA Foerster

R. astigma Ashm. N.Y. State Mus., 1901, Bull. 47, p. 587. Saranac Inn, type locality, *Ndm.*

DACNUSA Haliday

D. agromyzae Gahan. Can. Ent., 1913, **45**: 153. Tarrytown, reared from *Phytomyza obscurella* Fall. by FrostSW.

D. scaptomyzae Gahan. Can. Ent. 1913, **45**: 150. Reared at Ithaca, as a parasite of *Pegomyia calyptrata* Zett. (FrostSW); recorded also as a parasite of *Scaptomyza flaveola* Meig.

FAMILY ICHNEUMONIDAE [145]

Compiled by R. A. CUSHMAN

SUBFAMILY LYSIOGNATHINAE [146]

LYSIOGNATHA

L. comstocki Ashm. Ithaca, *SmHH* (types-US, CU).

SUBFAMILY JOPPINAE

(*Ichneumoninae* auctt.)

(So far as is known, the members of this subfamily are parasitic in the pupae of Lepidoptera.)

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[145] The nomenclature and arrangement of this family, with the exception of the inclusion of Lysiognathinae as a subfamily, have been entirely in the hands of Mr. Cushman, to whom the editors furnished such records, published and otherwise, as were available to them.

[146] The editors are responsible for ranking the genus Lysiognatha as a subfamily of Ichneumonidae, rather than as a separate family as placed in Mr. Cushman's manuscript. This was done to bring it into conformity with the classification adopted for the order as a whole.

Tribe **JOPPINI**

PSILOMASTAX Tischbein

P. vulpinus (Grav.) (*Trogus exesorius* Brullé). Keeseville, Je, *Fisher* (Cush-US); Albion (Hasey-CU); Ithaca, Je–Jl (Hasey-CU); Karner, Je, Nassau, May (NYS); New Baltimore, *Zab* (Hasey-AM); Nyack, *Zab* (AM); West Farms, *Angus* (AM); **LI**: Flatbush, *Zab* (AM); Long Beach (Hasey-AM). Parasite on Papilio.

TROGUS Panzer

T. brullei Cress. **SI,** Jl (Ashm-Ds). A parasite of hawk-moths.

T. canadensis Prov. Ithaca, Je, Aug (Gahan-NYS, US); Poughkeepsie, Aug (NYS); **SI,** Aug–Sep (Ashm-Ds).

T. copei Cress. New Russia, Aug 12, *Bdy* (Hasey-CU).

T. elegans Cress. Oswego, Jl (Vier-US); Ithaca, Jl–Aug (Hasey-CU).

T. nubilipennis Hald. **LI**: Long Beach, Jl (Cush-Schott, US).

T. obsidianator Brullé. New Russia, Aug, *Bdy* (Hasey-CU); L. Pleasant, Jl (NYS); Forest Lawn, *Zab* (AM); Ithaca, Jl–Aug (Hasey-CU); Poughkeepsie, Aug (NYS); Rensselaer, Je (NYS); **LI** (Vier-US). Parasite on *Papilio polyxenes* Fab.

TROGOMORPHA Ashmead

T. ferrugator (Fab.) (*trogiformis* Cress.). Ilion, May, *Yg* (NYS).

Tribe **AMBLYTELINI**

(*Ichneumonini* auctt.)

TRACHICHNEUMON Viereck

T. confirmatus (Cress.). Waterville (Martin-CU); Oswego, Ap (US); Ithaca, Mar (Martin-CU, US); McLean, Sep 16, 1924, *Sib* (Bdy-CU); Normanskill, Ap, *Yg* (NYS); Port Chester, Jl, *Yg* (NYS).

ECTOPIMORPHA Viereck

E. anceps (Cress.). Ithaca, Jl 31, 1918, *Yuasa* (Bdy-CU); Norton's Landing, Cayuga L., May 30, 1872, *SmHH* (Cress-CU); **LI**: Rockaway (Martin-AM).

AMBLYTELES Wesmael

(*Ichneumon* auctt. and *Amblyteles* auctt.)

A. acerbus (Cress.). Saranac Inn. Jl, Keene Val., Aug, *Yg* (NYS); Axton, Je, *M&H* (Martin-CU); Adirondacks, Aug (Martin-CU); McLean, May 30–Sep 24, *Sib*, *SRobinson* (Bdy-CU).

A. agnitus (Cress.). Ithaca, Je (Martin-CU); White L., *Zab* (Martin-AM).

A. annulipes (Cress.). Mt. Whiteface, 3800 ft., Jl, *Ald* (Cush-US); Cranberry L., Je 11–Jl 26, *Htly* (Cush-US, NYS Col. For.); Manlius, Aug, Norton's Landing, Je, *SmHH* (Cress-CU); McLean, Sep 3, *Sib* (Cush-CU); Poughkeepsie, May (NYS); Nyack (AM).

A. apertus (Cress.). New Russia, Aug 18, *Bdy* (Martin-CU); Albany, Je–Jl (NYS).

A. ater (Cress.). West Farms, *Angus* (AM). Locality may be doubtful (Leon).

A. atrifrons (Cress.). **LI:** Flatbush, *Zab* (Martin-AM).

A. atrox (Cress.). Ithaca, Mar (Martin-CU).

A. azotus (Cress.). Karner, Aug (NYS); Nyack (Martin-AM).

A. bimembris (Prov.). **LI** (Ashm-CU).

A. blandii (Cress.). **LI** (Ashm-US).

A. brevicinctor (Say) (*extrematis* [Cress.]). Newport, Je (NYS); Ilion, May (NYS); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Je (US); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May–Aug (Martin, Cress-CU); McLean, May (Martin-CU), Aug 28, *Sib* (Bdy-CU); Caroline to Harford, Je 15, *MacG&Bdy* (Martin-CU); Dryden L., Je, *MacG&Bdy* (Martin-CU); Albany, Je (NYS); Pine I. (AM); Nyack (Martin-AM); West Farms (Martin-AM); **SI** (Vier); **LI:** Flatbush (Martin-AM). Parasite on *Pyrausta nubilalis* Hueb., the European corn-borer.

A. brevipennis (Cress.). Axton, Je, *M&H* (Ashm-CU); Johnstown, Ap, Kenwood, Jl (NYS).

A. bronteus (Cress.). Old Forge, Jl, *Yg* (NYS).

A. caeruleus (Cress.). Elizabethtown, Johnstown, Aug (NYS); Mt. Whiteface, 3800 ft., Jl, *Ald*, Cranberry L., Je, *Htly* (Cush-US); Oswego, May, Aug (Ashm-US); Forest Lawn (Martin-AM); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May (Martin-CU); Nyack, *Zab* (Ashm-US, Martin-AM).

A. caliginosus (Cress.). Ithaca, Je, Freeville, Jl (Martin-CU).

A. centrator (Say) (*flavicornis* [Cress.]). Newport, Jl, *Yg* (NYS); Ithaca, Mar–Sep, common (Martin-CU, US); Ellis to Slaterville, Je, *MacG&Bdy* (Martin-CU); McLean, Ap 17, *Babiy*, Je 20, *Sib* (Bdy-CU); Albany, Ap, *Yg* (NYS); Rensselaer, May (NYS); Poughkeepsie, May, Jl (NYS); Hillburn, Dec, *Schott* (US); Nyack (Martin-AM); West Farms (Martin-AM); **SI,** Nov (Martin-AM, Ashm-Ds); **LI:** Flatbush (Martin-AM); "NY" (type of *flavicornis*-ANSP). Host: *Isia isabella* S. & A. (Arctiidae).

A. cincticornis (Cress.) (*galenus* [Cress.]). Albion (Martin-CU); Manlius, Sep, *SmHH* (Martin-CU); Rochester Jct., Je, *Leon* (Martin-CU); Ithaca, Ap–Aug (Martin-CU); McLean, Jl (Martin-CU); Newfield, Je, *MacG* (Martin-CU); Albany, Sep, Rensselaer, Mar (NYS); Normanskill, Ap (NYS); Big I., Mosholu (AM); West Farms (Martin-AM); **SI,** Ap (Martin-AM, Ashm-US); **LI:** Flatbush, *Zab* (Martin-AM); Prospect Pk. (Martin-AM); Cold Sp. Harb. (Martin-AM); Riverhead, Oct, *Russell* (Cush-US); Farmingdale, Jl, *Morrow* (Martin-CU). Host, *Autographa brassicae* Riley (Noctuidae).

A. cinctitarsis (Prov.). New Russia, Aug, *Bdy* (Martin-CU).

A. comes (Cress.). New Russia, Aug, *Bdy* (Martin-CU); Keene Val., Jl, *Yg*; Saranac Inn, Jl, *Yg*; Manlius, Aug, *SmHH* (Martin, Cress-CU); Cattaraugus, Sep (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Jl 11–25, *Sib* (Bdy-CU); Albany, Je, *Yg*; Poughkeepsie, Je, *Yg*.

A. comptus (Say). Speculator, Aug (NYS); Ithaca, Aug (Martin-CU); Poughkeepsie, Je, *Yg* (NYS); West Farms (Martin-AM); **SI** (Vier).

A. corvinus (Cress.). Albany, Je (NYS).

A. creperus (Cress.). Keene Val., Jl (NYS); Albion (Martin-CU); Ithaca. Sep (NYS).

A. detritus (Brullé). Coy Glen, Ithaca, Sep (Martin-CU); Barneveld, *Wolcott.*

A. devinctor (Say). Ithaca, Jan-Je (Martin-CU); McLean, Apr 17, 1925, *Babiy* (Bdy-CU); **SI** (Vier, Ashm-Ds); **LI:** Parkville (Martin-AM).

A. duplicatus (Say) (*signatipes* [Cress.]). New Russia, Aug, Bdy (Martin-CU); Rock City, Je (Martin-CU); Mud Cr., Je, *MacG&Bdy* (Martin-CU); Ithaca, May–Aug (Martin-CU); Norton's Landing, Cayuga L., May–Je, *SmHH* (Martin&Cress-CU); McLean, Jl 25–Sep 17, *Sib, SRobinson* (Bdy-CU); Albany, Je, Poughkeepsie, May, *Yg* (NYS); Nyack; **LI:** Flatbush, *Zab,* Rockaway (Martin-AM).

A. electus (Cress.). Ithaca, May (Martin-CU).

A. feralis (Cress.). Keene Val., Aug (NYS).

A. finitimus (Cress.). McLean, Aug 22, 1924, *Sib* (Cush-CU).

A. funestus (Cress.). Ithaca, Taughannock, Norton's Landing, McLean (Bdy-CU); New Russia, Axton (Bdy-CU); Oswego, Sep (Gahan-US); Nyack, *Zab* (US); **LI** (Vier).

A. fuscifrons (Cress.). McLean, Sep 16, 1924, *Sib* (Cush-CU).

A. germanus (Cress.). McLean, Aug 12, 1924, *Sib* (Bdy-CU); Johnstown, Aug, Poughkeepsie, May, *Yg* (NYS).

A. grandis (Brullé). New Russia, Aug, *Bdy* (Martin-CU); Johnstown, Sep; Canandaigua L., Jl (NYS); Otto, Sep, *Comst* (Martin-CU); Olean, Sep (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); McLean, Sep 3, *Sib* (Bdy-CU); Nyack, West Farms (Martin-AM).

A. helvipes (Cress.). Oswego, Jl (Ashm-US); **LI:** Flatbush, Je, *Zab* (Martin-AM, Ashm-US).

A. humillimus (D.T.) (*humilis* [Prov.]). Gloversville, Ap (NYS).

A. improvisus (Cress.). McLean, Aug 26–Sep 4, *Sib, SRobinson* (Bdy-CU); **LI** (Vier).

A. inconstans (Cress.). Rochester Jct., Jl, *Leon* (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); Ithaca, Taughannock, Greenville, Jl (Martin-CU).

A. instabilis (Cress.). Axton, Je, *M&H* (Martin-CU); Ithaca, May-Jl (Martin-CU); Huguenot, *Zab* (AM).

A. jejunus (Cress.). Albany, Je, Aug (NYS); Nyack, *Zab* (Martin-AM); West Farms, *Angus* (Martin-AM); **LI** (Vier, Cush-US).

A. jucundus (Brullé) (*flavizonatus* [Cress.]). Keene Val., Jl–Aug (NYS); Albion (Martin-CU); Gloversville, Mar, *Bks* (NYS); Oswego, Aug (US); Rochester Jct., Jl, *Leon* (Martin-CU); Pike, Je (NYS); Otto, Je, *Comst* (Martin-CU); Ithaca, Ap–Aug (Ashm,Martin-NYS,CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); West Farms, *Angus* (Martin-AM); **LI:** Flatbush, *Zab* (Martin-AM). Host: Papaipema (Noctuidae).

A. lachrymans (Prov.). Utica, *Pergande* (Cush-US); McLean, Jl 25–Aug 19, *SRobinson* (Cush-CU).

A. laetus (Brullé) (*canadensis* [Prov.]). New Russia, Aug, *Bdy* (Martin-CU); Newport, Aug, *Yg* (NYS); Axton, Je, *M&H* (Martin-CU); Oswego, Aug (US); Rochester, Aug (Martin-CU); Manlius, Jl–Sep, *SmHH* (Martin-CU); Buffalo, Nov, *MCV,* Stony I., Jl (US); Pike, Je, *Yg* (NYS); Clifton Sps., Aug, *Comstock* (Martin-CU); Otto, Sep, *Comstock* (Martin-CU); Ithaca, Je–Aug (Martin-CU, NYS); Taughannock, Jl (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); McLean, Jl–Sep 20 (Martin-CU); Binghamton, Sep, *Ellsworth* (Martin-CU); Albany, Sep, *Yg* (NYS); Stock-

port, May, *Currie* (US); Poughkeepsie, Je, *Yg* (NYS); Nyack (Martin-AM); Rye, Sep, *Bird*; West Farms, *Angus* (Martin-AM); **SI**, Jl (Vier, Ashm-Ds); **LI**: *Bird* (Crawford); Flatbush, *Zab*, Fishers I., Jl (Martin-AM); Farmingdale, Je, *Morrow* (Martin-CU). Parasite on pupa of most Papaipema which pupate in burrows (Bird); also on the army worm (Kngt).

A. leucaniae (Fitch) (*seminiger* [Cress.]). Rochester Jct., Jl, *Leon* (Martin-CU); Clifton Sps., Aug (Martin-CU); Ithaca, Ap–Jl (Martin-CU); Forest Home, Ap (NYS); Nyack (Martin-AM); West Farms (Martin-AM); **LI**: Huntington, Ap, *Schott* (Cush); Rockaway, Long Beach, Flatbush, *Zab* (Martin-AM). Parasite on the army worm.

A. leviculus (Cress.). Ithaca, Je (Martin-CU); Poughkeepsie, May (NYS).

A. lewisii (Cress.). Ithaca, May, Jl (Martin-CU); Nassau, May (NYS); West Farms (Martin-AM); **SI**, *Zab* (Martin-AM); **LI**: (Vier); Flatbush, *Zab* (Martin-AM).

A. lewisii var. **sandix** (Cress.). "NY" (type-ANSP); **LI** (Cush-US).

A. libens (Cress.). "NY" (Cress.).

A. luctus (Cress.). Axton, Je, *M&H* (Martin-CU); Canandaigua L., Jl (NYS), from a noctuid larva.

A. malacus (Say). Peru, May (Martin-CU); Manlius, Sep, *SmHH* (Martin&Cress-CU); Clifton Sps., Sep, *Comstock* (Martin-CU); Ithaca, Aug (Martin-CU); McLean, Aug 30–Sep 20, *Sib* (Bdy-CU); West Farms (Martin-AM); **SI** (Martin-AM); **LI**: (Vier-US); Flatbush, *Zab* (Martin-AM); Rockaway (Martin-AM).

A. maurus (Cress.). Saranac Inn, Wells, Jl (NYS); **SI** (Vier); **LI** (Ashm-Ds).

A. mellicoxus (Prov.). Oswego, Aug (Cush-US).

A. mellipes (Prov.). "NY", *Baker* (Cush-US).

A. mendax (Cress.). Gloversville, Pike, May, *Yg* (NYS); Ithaca, Feb–May (Martin-CU); Rensselaer, May, *Yg* (NYS).

A. merus (Cress.). Poughkeepsie, Je, *Yg* (NYS).

A. milvus (Cress.). New Russia, Aug, *Bdy* (Martin-CU); Canandaigua L., Jl (NYS); McLean, Aug 30–Sep 1, *SRobinson* (Bdy-CU).

A. mimicus (Cress.). Axton, Je, *M&H* (Martin-CU); Ithaca, May–Aug (Martin-CU).

A. montanus (Cress.). Manlius, Sep, *SmHH* (Martin&Cress-CU).

A. munificus (Cress.). Manlius, Sep, *SmHH* (Martin-CU); Ithaca, Aug–Sep (Martin-CU); McLean, Sep 3, *Sib* (Bdy-CU); Nyack, *Zab* (Cush-US).

A. nanodes Cush. (*nanus* [Cress.]). L. George (AM); **LI**: Flatbush, *Zab* (Martin-AM).

A. navus (Say). Old Forge, Jl (NYS); Ithaca, Mar, Jl (Martin-CU, NYS); Nyack, *Zab* (Cush-US); **SI**, Ap–May (Vier, Ashm-Ds); **LI**: Flatbush (Martin-AM).

A. nortoni (Cress.). Nyack (Martin-AM).

A. nubivagus Cress. Nyack, *Zab* (AM); **LI**: Flatbush, *Zab* (Ashm).

A. nuncius (Cress.). **SI**, Ap (Ashm-Ds).

A. ormenus (Cress.). Ithaca, Aug (Martin-CU).

A. ornatus (Cress.). "NY" (Cress-Am.Ent.Soc.). This is obviously not an Amblyteles, but its proper placing without study of specimens is impossible.

A. orpheus (Cress.). McLean, Aug 31, 1925, *SRobinson* (Bdy-CU); Delmar, Ap, Poughkeepsie, Je (NYS); West Farms (Martin-AM).

A. otiosus (Say). Gloversville, Ap (NYS); Ithaca, May (Martin-CU).

A. paratus (Say). New Russia, Aug, *Bdy* (Martin-CU); Manlius, Je, Norton's Landing, Cayuga L., Jl, *SmHH* (Martin&Cress-CU); Ithaca, May–Aug (Martin-CU); McLean, Aug 22, *Sib* (Bdy-CU); Ft. Montgomery, Aug, *Schott* (Cush); Poughkeepsie, Jl (NYS); Bear Mt., *Schott* (Cush-US); Nyack (Martin-AM); **LI:** Long Beach (Martin-AM); Flatbush, *Zab* (Martin-AM).

A. parvus (Cress.). Elizabethtown, Aug (NYS); Lancaster, Sep, *MCV* (Cush-US); Ithaca, Sep (Martin-CU,NYS); McLean, Je 13–Sep 3, *Sib, SRobinson* (Bdy-CU); West Farms, *Angus* (AM).

A. pepticus (Cress.). Nyack (Cush-US).

?**A. pequoitorum** Vier. **LI** (Cush-US).

A. pervagus (Cress.). Ithaca, Jl (Cush-US); **LI:** Flatbush, *Zab* (Martin-AM).

A. pilosulus (Prov.). Ithaca, Jl (Martin-CU).

A. provancheri Cush. (*bifasciatus* [Prov.]). New Baltimore (Martin-AM).

A. proximus (Cress.). "NY" (Martin-AM).

A. pulcher (Brullé). **LI:** Rockaway (Martin-AM).

A. pullatus (Cress.) (*subcyaneus* [Cress.]). New Russia, Je, *Bdy* (Martin-CU); Manlius, Sep, *SmHH* (Martin-CU); Oswego, Je (Cush-US); Syracuse, *Blkm* (Cush-US); Poughkeepsie, Jl (NYS); Nyack (Martin-AM); West Farms (Martin-AM); **LI:** Flatbush, *Zab* (Cush-US). Host: *Diacrisia virginica* Fab.

A. putus (Cress.). "NY", *Baker* (Cush-US).

A. quadrizonatus Vier. Ithaca, Sep (Martin-CU).

A. quebecensis (Prov.). Newport, Jl, Gloversville, Aug, *Yg* (NYS); McLean, Je 20–Jl 11, *SRobinson* (Bdy-CU).

A. restrictus (Cress.). "NY" (Cress).

A. rubicundus (Cress.). Ithaca, May–Aug (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress&Martin-CU).

A. rufiventris (Brullé). Axton, Je, *M&H* (Martin, Ashm-CU); Mt. Marcy, Jl, Sacandaga R., Aug (NYS); Ithaca, Jl (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ft. Montgomery, Jl (Cush-Schott); **LI:** Brooklyn (Martin-US).

A. rufizonatus (Cress.). Oswego, Sep (Ashm-US); Ithaca, Jl (Martin-CU).

A. sagus (Cress.). **LI:** Rockaway (Martin-AM).

A. saucius (Cress.). Albany, Aug (NYS); **LI** (Vier).

A. scelestus (Cress.). Oswego, Je (Ashm-US); Ithaca, Ap–Je (Martin-CU); Rensselaer, Mar, *Yg* (NYS); Normanskill, Ap, *Yg* (NYS); Rye, Aug, *Bird*, on *Papaipema impecuniosa*; **LI:** (Ashm-US); Flatbush (Martin-AM).

A. scriptifrons (Cress.). **LI** (Vier).

A. solitus (Cress.). **LI** (Vier).

A. soror (Cress.). Ithaca, *Chitt* (Cush-US); **LI:** Wyandanch, Dec (Cush-Schott).

A. stadaconensis (Prov.). Old Forge, Je (NYS).

A. stygicus (Prov.). Oswego, Jl (Gahan-US); McLean, Jl 18 (Cush-CU).

A. subdolus (Cress.). Potsdam (Martin-CU); Johnstown, Jl, *Alex* (Cush-US); Oswego, Je (Cush-US); Caroline to Harford, Je, *MacG&Bdy* (Martin-CU); West Farms, *Ang* (Martin-AM); **SI** (Vier); **LI** (Vier).

A. subfuscus (Cress.). New Baltimore, *Zab* (AM); **SI**, Oct (Vier, Ashm-Ds).

A. sublatus (Cress.) (*pravus* [Cress.] ♀). Oswego, Je (Cush-US); Manlius, Jl–Sep, *SmHH* (Martin&Cress-CU); Canandaigua L., Jl, *Yg* (NYS); Rock City, Je (Martin-CU); Gowanda, Aug, *EPV* (Ashm-US); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ithaca, Aug (Martin-CU, NYS); McLean, ♀, Sep 20–24, 1924, *Sib* (Bdy-CU), ♂, Jl 28–Aug 29 (Bdy-CU); Poughkeepsie, Je, *Yg* (NYS); Nyack (Ashm, Martin-US, AM); **SI** (Vier, Ashm-Ds); **LI** (Cush-US); Long Beach (Martin-AM); Flatbush, *Zab* (Martin-CU). Reared from *Heterocampa guttivitta* Wlk. (Notodontidae), in Me. and Mass.

A. subrufus (Cress.). Potsdam (Martin-CU); Ithaca, Ap (Martin-CU); West Farms, *Angus* (AM).

A. succinctus (Brullé). Rochester Jct., Je, *Leon* (Martin-CU); Ithaca, Jl–Sep (Martin-CU, US); Taughannock, Jl, McLean (Martin-CU); Albany, Sep (NYS); West Farms, *Angus* (Martin-AM); **LI** (Vier).

A. suturalis (Say). Keene Val., Jl, Gloversville, Mar (NYS); **LI:** Huntington, Nov, *Schott* (Cush-US).

A. tetricus Prov. "NY" (Ashm).

A. truculentus (Cress.). "NY" (Martin-AM); Ithaca, Je (NYS).

A. ultimus (Cress.). Ithaca, Je (Martin-CU). Determination doubtful.

A. ultus (Cress.). Axton, Je, *M&H* (Martin-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Martin-CU); Ithaca, Je (Martin-CU); Nyack (Martin-AM).

A. ultus var. **regalis** (Cress.). "NY" (Cress).

A. uncinatus (Cress.). Albany, Je (NYS).

A. unifasciatorius (Say). Oswego, Aug–Sep (Ashm-US); Manlius, Sep, *SmHH* (Martin&Cress); Niagara Falls, Aug, *MCV* (Cush-US); Ithaca, Je–Sep (Martin-CU, NYS); McLean, Aug 11–Sep 24, *Sib*, *SRobinson* (Bdy-CU); Nyack (Martin-AM); West Farms (Martin-AM); **LI:** (Ashm-US); Sea Cliff (CU); Sands Pt., Ap (Martin-AM); Flatbush, *Zab* (Martin-AM). Parasite on *Apatela oblinita* S. & A. (Noctuidae), and the hickory tussock caterpillar, *Halisidota caryae* Harr.

A. utilis (Cress.). "NY" (Cress).

A. velox (Cress.). Johnstown, Sep (NYS); Norton's Landing, Cayuga L., Je, *SmHH* (Martin&Cress-CU); Ithaca, Jl (Martin-CU); Poughkeepsie, May (NYS); West Farms, *Angus* (Martin-AM); **LI:** Brooklyn (Martin-AM).

A. versabilis (Cress.). "NY" (paratype-US); Ithaca, Je (Martin-CU); Mud Cr., Je, *MacG&Bdy* (Martin-CU).

A. vescus (Prov.). New Russia, Aug, *Bdy* (Martin-CU); Axton, Je *M&H* (Martin-CU); Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Norton's Landing, Cayuga L., May–Je, *SmHH* (Martin-CU); Ithaca, Je (Martin-CU).

A. vinnulus (Cress.). Ithaca, May–Oct (Martin-CU); Katonah (Martin-AM); New Baltimore, Nyack, West Farms (Martin-AM); **LI:** Flatbush (Martin-AM).

A. viola (Cress.). Saranac Inn, Jl (NYS); **LI** (Vier-US).

A. vitalis (Cress.). Ithaca, Sep (NYS); **LI** (Vier).

A. vittifrons (Cress.). **LI** (Cush-US).

A. vivax (Cress.). Ithaca, Jl (Martin-CU).

A. volens (Cress.). "NY" (Cress).

A. volesus (Cress.). Axton, Je, *M&H* (Martin-CU).

A. w-album (Cress.). Mt. Whiteface, 3800 ft., *Ald* (Cush-US); Norton's Landing, Cayuga L., May, *SmHH* (Martin&Cress-CU); Ithaca, Je (Martin-CU); McLean, Aug 24–Sep 3, *Sib* (Bdy-CU); Albany, Je, Karner, Jl, *Yg* (NYS); Bear Mt., Jl (Cush-Schott); Poughkeepsie, Je, *Yg* (NYS); Nyack (AM); **SI**, Je (Vier, Ashm-Ds). **LI** (Ashm-Us).

A. wilsoni (Cress.). Poughkeepsie, Jl, *Yg* (NYS); Rhinebeck, Jl, *Cy* (Martin-CU); West Farms, *Angus* (Martin-US).

EURYLABUS Wesmael

E. agilis Cress. "NY" (Cress).

PLATYLABUS Wesmael

P. thoracicus (Cress.). "NY" (Cress).

HOPLISMENUS Gravenhorst

H. morulus (Say). Manlius, Aug, *SmHH* (Cress-CU); Ithaca, Jl–Aug (CU); **SI**, *Ds* (Ashm-Ds). Hosts: *Aglais antiopa* L. and *Polygonia interrogationis* Fab.

Tribe PHAEOGENINI

HERPESTOMUS Wesmael

H. pyriformis (Prov.). "NY" (Cress).

COLPOGNATHUS Wesmael

C. helvus (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Barneveld, Ap, *Wolcott* (Cush-US); **LI** (Ashm-US).

CENTETERUS Wesmael

C. tuberculifrons (Prov.). **LI** (Ashm).

EPARCES Foerster

E. quadriceps (Cress.). Ithaca, Jl, *Yuasa,* Spring Lake, Jl (Bdy-CU); McLean, Sep 19, 1924, *Sib* (Bdy-CU).

PHAEOGENES Wesmael

P. fungor (Cress.). Ithaca, *Chitt* (Cush-US); **LI** (Ashm-US).

P. gelechiae Ashm. Ithaca, *Leiby* (Cush-US). Host: the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* Rly.

P. hebe (Cress.). NY (Cress); **LI** (Ashm).

P. hebrus (Cress.). Ithaca, Je–Jl (Bdy-CU); McLean, Ap 17, 1925 (Cush-CU).

P. mellinus (Prov.). Ithaca (Bdy).

P. pimploides Bdy. Ithaca, Jl 12 (type-CU).

P. vincibilis (Cress.). Norton's Landing, Cayuga L., Je 13, 1872 (Cress-CU).

SUBFAMILY CRYPTINAE [147]

Tribe STILPNINI

MESOLEPTUS Grav.

(*Exolytus* Holmberg and auctt.)

M. aciculatus (Davis). "NY" (GCDavis).
M. glaucus (Davis). "NY" (GCDavis).
M. ithacae (Ashm.). Ithaca (type-US).

ATRACTODES Gravenhorst

A. compressus (Cress.). "NY" (Ashm).
A. sepedontis Ashm. Saranac Inn, Aug, 1900 (type-US).

STILPNUS Gravenhorst

S. americanus Cress. **SI** (Vier).

Tribe PHYGADEUONINI

THYSIOTORUS Foerster

T. smithi Cush. McLean, Aug 18–Sep 16, *SRobinson* (Cush-US); Hamden, Je 30, 1924 (Cush-US). A secondary parasite of the ophionine wasp, *Hyposoter geometrae* (Ashm).

GLYPHICNEMIS Foerster

G. crassipes (Prov.). Newport, Jl, *Yg* (NYS); Ithaca, Je (Cush-US).

STYLOCRYPTUS Thomson

S. inflatus (Prov.). McLean, Aug 18, 1925, *SRobinson* (Cush-CU).
S. maculatus (Prov.). Old Forge, Jl, *Yg* (NYS).
S. mucronatus (Prov.). "NY" (Ashm).
S. pubescens (Prov.). McLean, Aug 1, 1925, *SRobinson* (Cush-CU).
S. subclavatus (Say) (*Phygadeuon rotundiceps* Prov.). Nassau, Je (NYS).
S. vulgaris (Cress.). **LI** (Ashm-US).

PEZOPORUS Foerster

P. tenthredinarum Roh. Geneva (type-US). On *Profenusa collaris* (MacG.) (Tenthredinidae).

APTESIS Foerster

A. pterygia Brad. Ithaca, Je, *Yuasa* (Bdy-CU); Taughannock, Jl, 1925, *Bdy& Guerlac* (Cush-CU).

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[147] If the Erlangen List is accepted, this subfamily should be called *Gelinae,* from *Gelis* Thunberg, the next oldest name in the subfamily (Cush), or *Itamopleginae,* from *Itamoplex,* replacing the homonym *Cryptus* Fab. (Bdy).

PLECTOCRYPTUS Thomson

P. contiguus (Cress.). Oswego, Je, Aug (Cush-US).
P. major (Cress.). Poughkeepsie, Je, *Yg* (NYS).

PHYGADEUON Gravenhorst

(Subgenus PHYGADEUON Gravenhorst)

P. brevicornis (Prov.). Beaver Cr., McLean, Sep 14, 1924, *Sib* (Cush-CU).
P. orbitalis (Prov.). McLean, Sep 17, 1924, *Sib* (Cush-CU).
P. subfuscus Cress. **LI** (Ashm).

(Subgenus STIBEUTES Foerster)

P. yuasai Bdy. Ithaca, Jl, *Yuasa* (type-CU).

POLYTRIBAX Foerster

P. pallescens Vier. Ithaca, *Chitt* (Cush-US); McLean, Sep 16, 1924, *Sib* (Cush-CU).

Tribe **HEMITELINI**

ACROLYTA Foerster

A. smerinthi Ashm. Ithaca, Sep 13 (Ashm-CU), from sphinx larvae.

ISDROMAS Foerster

I. aletiae (Ashm.). Ithaca (Ashm-CU). On Apanteles.
I. bucculatricis (Ashm.). Ithaca (Ashm-US).

ASTOMASPIS Foerster

A. nanus (Grav.) (*fulvipes* [Grav.]). Rye, May–Sep, *Bird*. Bird says there seem to be two broods. A parasite on many species of Apanteles.

HEMITELES Gravenhorst

H. humeralis Prov. **LI**: Flatbush, *Zab* (AM).
H. ruficoxis Prov. McLean, Aug 26, 1925 *SRobinson* (Cush-CU).
H. sessilis Prov. Albany, May, 1895 (NYS).
H. tenellus (Say) (*melitiae* Ashm., *utilis* Nort., *periliti* Ashm.). Genoa, Nov (Ashm-CU); Ithaca, Jl (Bdy, Ashm-CU); Corinth (Felt); Rye, May, *Bird* (CU); **LI**: Flatbush, *Zab* (AM). A secondary parasite attacking many species of primary parasites.

AENOPLEX Foerster

A. rubricornis (Ashm.). **LI** (Ashm).

CHRYSOPOCTONUS Cushman

(All the species of this genus are parasitic within the cocoons of Chrysopa.)

C. atriceps (Ashm.). Ithaca, *Chitt* (Cush-US).

C. rileyi (Ashm.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Ithaca (Cush-US).

Tribe **GELINI**

(*Pezomachini* auctt.)

GELIS Thunberg

(*Pezomachus* Gravenhorst)

(The species of this genus are either secondary parasites or parasitic within the egg cocoons of spiders.)

G. bucculatricis (Ashm.). Chapel Pond, Je, *Cy* (Cush-US); Artist's Br., Jan, *Leon* (Cush-US); McLean, Sep 16, 1924, *Sib* (Mues-CU).

G. dimidiatus (Cress.). Ithaca, Mar, May (Ashm-CU), from a spider's egg-cocoon.

G. dispar (Strickl.). Ithaca, Sep 11, 1925, *Babiy* (Cush-CU).

G. flavocinctus (Ashm.). Ithaca (Strickland).

G. meabilis (Cress.). **SI** (Ashm).

G. microplitidis Gahan. Rye, May–Sep, *Bird* (type-US), from *Microplitis gortynae* Rly.

G. ottawaensis (Harr.). Penn Yan, Aug 2, 1925, *Cy* (Cush-CU).

G. thripites (Taylor). "NY" (Taylor).

G. uniformis (D.T.). Ithaca, Nov 19, 1925, *Cy* (Cush-CU), found ovipositing on spider cocoon.

G. urbanus (Brues). Taughannock, Jl, 1925, *Bdy, Guerlac* (Cush-CU); Ithaca, Mar 7 (Cush-CU); McLean, Ap, 1917, *Babiy* (Cush-CU).

Tribe **CRYPTINI** [148]

(Including *Mesostenini*)

ACRORICNUS Ratzeburg

A. junceus (Cress.). Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Aug 30, 1924, *Sib* (Bdy-CU); **SI** (Ds); **LI:** Fishers I. (AM). Parasitic in nests of Odynerus.

SPILOCRYPTUS Thomson

S. atricollaris (Walsh). Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); McLean, Jl 25–Sep 12, *SRobinson, Sib* (Cush-CU).

S. canadensis (Prov.). McLean, Aug 31, 1925, *SRobinson* (Cush-CU).

S. extrematis (Cress.). Albany, Je (NYS); **LI:** Flatbush, *Zab* (AM), Je (US); Jamaica, Je (US). Host: *Samia cecropia.*

S. nuncius (Say). McLean, Aug 23–30, *SRobinson, Sib* (Cush-CU); Albany, Jl (NYS); Nyack, *Zab* (AM).

S. polychrosidis Cush. Ithaca, *Sling* (Cush-US). Host: grape berry moth.

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[148] If the Erlangen List is accepted, this tribe should be known as the *Mesostenini,* from the next oldest name, *Mesostenus* Grav. (Cush), or *Itamoplegini,* from *Itamoplex* Foerster, replacing the homonym *Cryptus* Fab. (Bdy).

COMPSOCRYPTUS Ashmead

C. retentor (Brullé). **SI**, Sep (Ashm-Ds).

MEGAPLECTES Förster

M. blakei (Cress.). McLean, Je 30, 1921 (Bdy-CU). This is undoubtedly identical with the European *monticola* Grav. I find no distinction between the McLean and European specimens. (Bdy.)

CRYPTUS Fabricius

(*Itamoplex* Foerster)

C. altoni D.T. Cranberry L., Je, *Htly* (Cush-US); Coeymans (NYS).

C. persimilis Cress. Oswego, May–Jl, Stony I., Jl, **LI** (Cush-US).

C. vinctus (Say) (*americanus* Cress.). Old Forge, Je (NYS); Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); Stony I., Jl (Cush-US); **LI:** Flatbush, *Zab* (AM, US).

CHROMOCRYPTUS Ashmead

C. planosae (Fitch). "NY" (type-US), (Cush-US). The type was bred from a cocoon of *Tolype laricis* Fitch, the other specimen from *T. vellida* Stoll. (Lasiocampidae).

IDIOLISPA Foerster

I. limata (Cress.). Oswego, Je (US); Manlius, Jl, Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); **LI:** (US); Flatbush, *Zab* (AM, US).

TRYCHOSIS Foerster

T. rufoannulata (Prov.). Oswego, May (Cush-US).

T. similis (Cress.). Ft. Montgomery, Je (Cush-Schott); **LI** Vier-US).

HOPLOCRYPTUS Thomson

H. apicatus (Prov.). Oswego, Jl–Aug (Cush-US).

H. incertulus Cush. **LI** (Vier-US).

CRYPTOIDEUS Ashmead

C. agrili (Vier.). **LI:** Huntington, Ap (Cush-Schott). Host: *Agrilus vittaticollis* Rand.

ECHTHRUS Gravenhorst

E. abdominalis Cress. Cranberry L., *A. Gottlieb* (Cush-US).

CHAERETYMMA Foerster

C. velox (Cress.). "NY" (type-ANSP).

CRYPTUROPSIS Ashmead

C. candidus (Cress.). **LI:** Orient, *Sep* (Cush-Schott).

C. fortis (Cress.). "NY", *Comstock* (type-ANSP).

LISTROGNATHUS Tschek

L. albomaculatus (Cress.). Manlius, Aug 2, 1872, *SmHH* (Cress-CU); "NY" (Vier-US).

POLYAENUS Cresson

P. spinarius (Brullé). **LI** (Cush-US).

MESOSTENUS Gravenhorst

M. erythrogaster Ashm. Oswego, Je (Cush-US); Ithaca, *Chitt* (Cush-US).

M. gracilis Cress. Ithaca, *Chitt* (Cush-US).

M. thoracicus Cress. Manlius, Sep, Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); Ithaca, Je (Ashm-CU); Poughkeepsie, Je, *Yg* (NYS).

POLISTIPHAGA Cushman

P. arvalis (Cress.). Nyack, *Zab* (AM); **LI** (US). Host: Polistes.

SUBFAMILY **ICHNEUMONINAE** [149]

(*Pimplinae* auctt.)

Tribe **LISSONOTINI**

(The members of this tribe are very largely parasitic on lepidopterous larvae, although a few are recorded as reared from sawfly larvae.)

EXETASTES Gravenhorst

E. albitarsis Prov. Cranberry L., Jl, *Htly* (Cush-US).

E. fascipennis Cress. Manlius, Sep, *SmHH* (Cress-CU); Nyack, *Zab* (Cush-US); **SI,** Oct (Ashm–Ds).

E. obscurus Cress. Nyack, *Zab* (AM).

E. suaveolens Walsh. Saranac Inn, *Yg* (NYS); ?Manlius, *SmHH* (Cress-CU); Oswego, Aug (Ashm-US); Ithaca, Jl, *EHSargent* (Ashm-CU); McLean, Jl 20–Aug 24, *Sib* (Bdy-CU); L. George, *Zab* (AM); Ft. Montgomery, Aug, *Schott* (AM); **LI,** Aug (Ashm-US).

ARENETRA Holmgren

A. nigrita Cress. Caroline, Ap (Cush-CU); Nassau, May (NYS); **SI** (Ashm-Ds-US).

A. ventralis Cress. "NY" (Cress).

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[149] Holarctic tribes of the ichneumon-flies of the subfamily Ichneumoninae (Pimplinae). By Robert A. Cushman and S. A. Rohwer. Proc. U. S. Nat. Mus., 1920, 57:379–396.

MENISCUS Schiødte

M. agilis (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Waterville (Cush-US).

M. scutellaris (Cress.). Adirondacks, Jl, Aug (Cush-CU); Essex Co, Jl (NYS); Ithaca, Jl (Cush-CU). Recorded as a parasite of *Gelechia pseudacaciella* Chamb.

M. superbus (Prov.). Oswego, May (Cush-US); Rock City, Je (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); McLean Bogs, Ithaca, May–Je (Cush-CU).

LISSONOTA Gravenhorst

(*Lampronota* Cresson not Curtis)

(Subgenus **LISSONOTA** Gravenhorst)

L. americana (Cress.). Essex Co, Aug (NYS); Potsdam, Albion (Bdy-CU); Cranberry L., Aug, *Spooner* (Cush-NYS); Middletown, Jl, *Spooner* (Cush-CU); Manlius, Sep, *SmHH* (Cress); L. Placid, Aug (Cush-US); Thousand Isls., Sep (Cush-CU); Rochester, Aug, *Summers* (Cush-CU); Oswego, Sep (Vier); Otto, Sep, *Comstock* (Cush-CU); Delhaven, Aug (Cush-CU); Spencer Summit, Aug, *Comstock* (Maidl-CU); Ithaca, May–Sep (Cush-CU); Spring Lake, Jl, *Bdy* (Cush-CU); Freeville, Aug (Cush-CU); McLean, Jl 18–Aug 1, *SRobinson* (Bdy-CU); **LI:** Riverhead, Sep (Cush-CU). Very common, probably everywhere in the State.

L. angusta (Davis). Ithaca, Ap (Cush-US, CU).

L. brunnea Cress. Rye, *Bird* (Cush–US).

L. cressonii Vier. (*occidentalis* Cress.). Manlius, Aug, *SmHH* (Cress-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Spring Lake, Jl (Cush-CU); Ithaca, Jl (Cush-CU); **LI:** Jamaica (Roh-US), on *Podosesia syringae* Harr. (Aegeriidae).

L. exilis (Cress.). New Russia, Aug, *Bdy* (Cush-CU); North Cr., Jl, *Fbs* (Cush-US); Axton, Je, *M&H* (Ashm-CU); Rochester Jct., Jl, *Leon* (Cush-CU); Stony I., Jl (US); Ithaca, Sep (Maidl-CU).

L. frigida (Cress.). Old Forge (NYS); Watertown, *Lint* (Cress-NYS); Ithaca; Nassau, Jl–Sep (NYS); Manlius, Jl–Sep, *SmHH* (Cress-CU); Middletown, Jl, *Spooner* (Cush-CU). Recorded as a parasite of *Crambus vulgivagellus* Clem.; specimens from this host are also in the U. S. Nat. Mus.

L. humeralis (Prov.). Oswego, Jl (Roh-US).

L. jocosa (Cress.). Portageville, Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cush-CU); Ithaca, McLean, Coy Glen, May–Jl (Cush-CU, US).

L. laevigata (Cress.). McLean, Sep 12–17, *Sib* (Cush, Bdy-CU).

L. parva (Cress.). Oswego, Ap (Cush-US); Ithaca, from leaf-miner, Apr–May (Ashm, Cush-CU, US); McLean, Aug 20–Sep 3, *Sib, SRobinson* (Bdy-CU); **LI:** Orient Pt., Ap (Cush-NYS).

L. philipi Vier. Ithaca, Aug (Cush-CU, US).

L. pleuralis (Cress.). Potsdam, Jl (Cush-CU); Oswego, Sep (Cush-US); Manlius, Sep, *SmHH* (Cress-CU); Ithaca, Je–Aug (Cush-CU, US). Recorded as a parasite of *Eulia velutinana* Wlk. (Tortricidae).

L. punctata (Cress.) (*albifacies* [Prov.]♂). Potsdam (Cush-CU, US); Utica, *Pergande* (Cush-US); N. Fair Haven, Sep (Cush-CU); Albion (Cush-US); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Sep (Vier-US); Cattaraugus, Sep (Cush-CU); Ithaca, Ap–Sep (Cush-CU); Freeville, Sep (Maidl-CU).

L. rubrica (Cress.). Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Spring Lake, Jl (Cush-US); Spring Cr., Jl, *Fbs* (Cush-US); Ithaca, Aug, *Foster* (Cush-CU); Middletown, Jl, *Spooner* (Cush-CU); **LI** (Vier-US).

L. rufipes (Cress.) (*tegularis* [Cress.], male). Manlius, Aug, Sep, *SmHH* (Cress-CU); Utica, *Pergande* (Cush-US); N. Fair Haven, Sep, *Bdy* (Cush-CU); Otto, Sep, *Comstock* (Cush-CU); Pearl Pt., Aug (Cush-CU).

L. varia (Cress.). Potsdam (Cush-CU); Adirondacks, Aug (Cush-CU); L. Placid, Aug (Roh-US); Thousand Isls., Sep (Cush-CU); Manlius, Sep, *SmHH* (Cress-CU); Otto, *Comst* (Cush-CU); Varna, Sep (Cush-CU); Ithaca, Jl–Sep (Cush-CU, US); McLean, Sep 1, *SRobinson* (Bdy-CU), Sep 24, *Sib* (Cush-CU).

(Subgenus **ASPHRAGIS** Foerster)

L. mirabilis (Cress.). Cranberry L., Jl, *Htly* (Cush-SyracuseU); McLean, Aug 7, 1925, *SRobinson* (Bdy-CU). Specimens in the U.S. Nat. Mus. were reared from *Recurvaria robiniella* Fitch and *Gelechia trialbamaculella* Chamb. (both Gelechiidae).

SYZEUCTUS Foerster

S. elegans (Cress.). Ithaca, Jl, *Yuasa* (Bdy, Cush-CU). Specimens in the U.S. Nat. Mus. are said to have been reared from *Archips fervidana* Clem. (Tortricidae) and *Psilocorsis* sp. (Oecophoridae).

CYLLOCERIA Schiødte

C. occidentalis Cress. Axton, Jl, *M&H* (Cush-CU, US); Keene Val., Aug (Cush-US); Rock City, Je (Cush-CU, US); Ithaca, May, Jl (Cush-CU); Coy Glen, Taughannock, Jl, Sep (Cush-US); McLean, May–Sep 24 (Cush, Bdy-CU, US).

Tribe GLYPTINI

(The members of this tribe are parasitic on the larvae of Lepidoptera.)

GLYPTA Gravenhorst

G. animosa Cress. "NY" (Cress). Recorded as a parasite of *Eucosma scudderiana* Clem. (Tortricidae).

G. borealis Cress. Johnstown, Aug (NYS).

G. canadensis Cress. Oswego, Je (Cush-US); McLean, Aug 31, *Sib* (Cush-US).

G. erratica Cress. Cranberry L., Jl, *Htly* (Cush-N.Y.S. Col. For.); Axton, Je, *M&H* (Cush-CU); Peru, Je (Cush-CU); Ithaca, Je–Sep (Cush-CU); Mud Cr., Je (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); Karner, Nassau, Albany, May, Jl, *Yg* (NYS). Parasite on *Grapta comma* Harris.

G. inversa Cress. Ithaca, Aug (Cush-CU).

G. phoxopteridis Weed. McLean, Aug 31, 1925, *SRobinson* (Bdy-CU). Parasite of the strawberry leaf-roller, *Ancylis comptana* Froelich.

G. pulchripes Cress. Ithaca, Je–Sep (Cush-CU).

G. rufiscutellaris Cress. New Russia, Aug, *Bdy* (Cush-CU); Rochester Jct., Jl, *Leon* (Cush-CU); Ithaca, Ap–Jl (Cush-CU); McLean, Je (Cush-CU); Cohoes, Je (Cush-US); **LI**: Farmingdale, Je, *Morrow* (Cush-CU). A native parasite of the introduced oriental peach moth, *Laspeyresia molesta* Busck.

G. rufofasciata Cress. Spring Lake, Jl (Cush-US); **LI:** Farmingdale, Jl, *Morrow* (Cush-CU).

G. simplicipes Cress. Rochester Jct., Je, *Leon* (Cush-CU); Ithaca, Jl–Aug (Cush-CU); Nassau, Ap (NYS); Albany, Feb (NYS). Recorded as a parasite of *Peronea minuta* Rob. and its variety *cinderella* Rly., *Archips rosaceana* Harr. (all Tortricidae), and *Heterocampa bilineata* Pack. (Notodontidae). Specimens in the U.S. Nat. Mus. are from the first of the above-named hosts, *Cymolomia footiana* Fern. (Tortricidae), and *Zotheca tranquilla* Grt. (Noctuidae).

G. varipes Cress. Ithaca, May (Cush-CU). Specimens in the U.S. Nat. Mus. are from the lesser codling worm, *Laspeyresia prunivora* Walsh.

G. vulgaris Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May–Aug (Cush-CU). Specimens in the U.S. Nat. Mus. are recorded as reared from *Trichotaphe juncidella* Clem. (Gelechiidae), *Eulia velutinana* Wlk., *Olethereutes interruptolineana* Fern. (Tortricidae), the oriental peach moth (*Laspeyresia molesta* Busck), and *Cymolomia punctana* Walsh.

Tribe **PHYTODIETINI** [150]

PHYTODIETUS Gravenhorst

P. annulatus (Prov.). Oswego (Roh-US); Ithaca, Mar–May (Roh, Cush-CU, US); Watkins (Roh); Mix Cr. Val., Je (Cush-CU). Specimens in the U.S. Nat. Mus. were reared from *Archips argyrospila* Wlk. and *Ancylis fragariae* Walsh & Rly. (both Tortricidae).

P. burgessi (Cress.). Rock City, Je (Cush-CU); Ithaca, May, Aug (Maidl-CU, Roh-US); McLean Bogs, May, Jl 20, *Sib* (Cush-CU). Specimens in the U.S. Nat. Mus. were reared from *Exartema myricanum*, *Peronea logiana* Schiff., *Ancylis platana* Clem. (Tortricidae), and *Acrobasis betulella* Hulst (Pyralidae).

P. vulgaris Cress. Manlius, Sep, *SmHH* (Cress-CU); Portageville, Je (Cush-CU); Ithaca, Je–Jl (Cush-CU), from *Archips argyrospila* Wlk. (Tortricidae); McLean, Aug 22, *Sib* (Bdy-CU); Albany, Oct (NYS); **LI:** Riverhead, Sep (Cush-CU). A specimen in the U.S. Nat. Mus. was reared from *Peronea minuta* Rob. (Tortricidae).

Tribe **THERONIINI** [151]

(The members of this tribe are parasitic in the pupae of Lepidoptera, sometimes, at least, as secondary parasites.)

THERONIA Holmgren

T. fulvescens (Cress.). Ithaca, Aug (Mues-CU); Manlius, Sep, *SmHH* (Cress-CU); Pike, Jl (NYS); Glens Falls (Cush-US); Albany, Aug (NYS); Slingerlands (Felt-NYS); Dutchess Co., Sep, *Dyar* (Cush-US). Specimens in the U.S. Nat. Mus. were reared from the pierid butterfly, *Neophasia menapia* Felder, the spruce budworm, *Hormologe fumiferana* Clem., the white-marked tussock, *Hemerocampa leucostigma* S. & A., *Oreta rosea* Wlk. (Drepanidae), and *Malacosoma* sp. Also recorded from the tent caterpillar *Malacosoma americana* Harris, and the gipsy moth, *Porthetria dispar* L. Specimens in NYS were bred from the forest tent caterpillar, *Malacosoma disstria* Hbn.

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[150] See work cited under Rhyssini, page 938.

[151] The North American ichneumon-flies of the tribes Lycorini, Polysphinctini, and Theroniini. By Robert A. Cushman. Proc. U. S. Nat. Mus., 1920, 58:7–480.

T. melanocephala (Brullé). New Russia, Aug, *Bdy* (Mues-CU); Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Manlius, Jl–Sep, *SmHH* (Cress-CU); Rock City, Je (Mues-CU); Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); Ithaca, May–Jl (Mues, Cush-CU); McLean, Aug 20, Sep 4, *Sib* (Bdy-CU); Nyack (?Brues-AM); Ft. Montgomery, Sep (Cush-Schott); **LI**: Flatbush (?Brues-AM). Recorded as reared from the gipsy moth, *Porthetria dispar* L., the silver-spotted skipper, *Epargyreus tityrus* Fab., the spotted tussock caterpillar, *Halisidota maculata* Harr., and the hickory tussock caterpillar, *H. caryae* Harris.

Tribe **EPHIALTINI**[152]

(*Pimplini* auctt.)

(The species of this tribe are primary parasites within the pupae of Lepidoptera.)

EPHIALTES Schrank

(*Pimpla* auctt., in part)

(Subgenus EPHIALTES Schrank)

E. aequalis (Prov.). Newport, Je, *Yg* (NYS); Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Labrador L., May (Cush-CU); Manlius, Jl-Sep, *SmHH* (Cress-CU); N. Fair Haven, Sep (Baird-CU); Oswego, Aug (Cush-US); Rochester Jct., Je, *Leon* (Baird-CU); Rock City, Je (Cush-US); Norton's Landing, Cayuga L., May, Je, *SmHH* (Cress-CU); Ithaca, Sep (Cush, Bdy, Baird-US, CU); Taughannock, May (Baird & Bdy-CU); Ringwood, Jl (Cush-US); Caroline, Je (Baird-CU); McLean Bogs, May, Sep 3 (Cush, Bdy-US, CU); Spring Lake, Jl, *Bdy* (Cush-US); Middletown, Jl, *Spooner* (Cush-US); Trenton Falls, Je (Cush-NYS); Albany, Je, *Yg* (NYS); Poughkeepsie, Je (Cush-NYS); **SI**, *Bird* (Ashm-Ds). A common parasite of the codling moth (*Carpocapsa pomonella* L.), and recorded from a great variety of other hosts among both macrolepidoptera and microlepidoptera.

E. aquilonia (Cress.). Ithaca, Jl (Cush-CU); Albany, Jl (Cush-US).

E. pedalis (Cress.). New Russia, Aug, *Bdy* (Baird-CU); Potsdam, Jl (Baird-CU); Manlius, Sep, *SmHH* (Cress-CU); Oswego, Sep (Cush-US); Utica, *Pergande* (Cush-US); Honeoye Falls (Cush-CU); Otto, Jl, *Comstock* (Baird-CU); Ithaca, Ap–Sep (Cush, Bdy-US, CU); McLean Bogs, Spring Lake, Taughannock, Je–Aug (Baird, Bdy-CU); Glens Falls, Albany (NYS); New Baltimore, *Zab* (?Brues-AM); **SI** (Ashm-Ds); **LI**: Flatbush, *Zab* (?Brues-AM); Fishers I. (?Brues-AM); Melville, May (Cush-Schott); Riverhead, Sep (Baird-CU). A common parasite of the tent caterpillars (*Malacosoma* spp.), the gipsy moth (*Porthetria dispar* L.), the brown-tailed moth (*Euproctis chrysorrhoea* L.), and many other Lepidoptera.

E. tenuicornis (Cress.). Newport, 1200 ft., May–Je (Cush-NYS); Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Potsdam, Jl (Baird-CU); Axton, Je, *M&H* (Ashm-CU); Utica, *Pergande* (Cush-US); Oswego, Jl (Cush-US); N. Fair Haven, Sep (Baird-CU); Stony I., Jl (Cush-US); Olean, Sep (Baird-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); Mud Cr., Je, *MacG&Bdy* (Bdy-CU); McLean Bogs, May–Sep 16 (Baird, Bdy, Maidl-CU); Seneca Jct., Je (Baird-CU); Spring Lake, Jl (Baird-CU);

[152] The North American ichneumon-flies of the tribe Ephialtini. By Robert A. Cushman. Proc. U. S. Nat. Mus., 1920, 58:327–362.

Ithaca, Jl (Cush-NYS); Albany, Je, Sep (Cush-NYS). Recorded as a parasite of the gipsy moth (*Porthetria dispar* L.) and *Alcathoe caudata* Harr. (Aegeriidae).

(Subgenus **ITOPLECTIS** Foerster)

E. conquisitor (Say). Peru, Je, *M&E* (Baird, Gahan-CU); Rochester Jct., Je, *Leon* (Baird-CU); Waterville (Baird-CU); Manlius, Sep–Oct, *SmHH* (Cress-CU); N. Fair Haven, Sep (Baird-CU); Portageville, Je (Baird-CU); Rock City, Je (Baird-CU); Chipmunk Swamp, Je (Baird-CU); L. Keuka, Je, *Cy* (Baird-CU); Ithaca, May–Sep (Bdy–CU), from *Malacosoma americana ALLiu*; Malloryville, Je, *MacG* (*Bdy*-CU); Slaterville to Caroline, and Caroline to Harford, Je, *MacG* (*Bdy*-CU); Freeville, McLean, Spring L., Jl (Baird-CU); Bainbridge, Jl (Cush-NYS); Albany, Je, *Yg* (NYS); Slingerlands (Felt); **SI:** W. Brighton (*Lint*); **LI** (US). Throughout the State. Parasitic on pupae of many Lepidoptera. One of the most common of ichneumonids.

E. leavitti Cush. Richfield Sps., Oct 14, 1888, *Perg* (Cush-US).

APECHTHIS Foerster

A. picticornis (Cress.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Ithaca, *Yuasa* (Bdy-CU); McLean, Aug 20–31, *Sib*, *SRobinson* (Bdy-CU).

Tribe **POLYSPHINCTINI** [153]

(The species of this tribe are externally parasitic on spiders.)

CLISTOPYGA Gravenhorst

C. canadensis Prov. Oswego, Aug (Cush-US).

POLYSPHINCTA Gravenhorst

(Subgenus **POLYSPHINCTA** Gravenhorst)

P. burgessi Cress. Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Oswego, Je (Cush-US); Ithaca, Aug (CU).

P. koebelei How. Ithaca, Jl (Maidl-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU). The type of this species was reared from a spider of the genus Epeira (*strix* or *sclopetaria*).

P. slossonae Davis. Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Chapel Pond, Je (Cush-NYS Col. For).

P. strigis How. Oswego (Cush-US); Ithaca, Je (Cush-CU); McLean, Aug 26, *SRobinson* (Cush-CU); **LI:** Sea Cliff (How-US), type, on *Epeira strix*.

P. texana Cress. Ithaca, Jl (Cush-US); McLean, Aug 24, 1925, *SRobinson* (Bdy-CU). Recorded as a parasite of *Steatoda borealis*.

(Subgenus **ZATYPOTA** Foerster)

P. crosbyi Cush. Oswego, Jl (holotype-US); McLean, Nov, *Cy* (allotype, Cush-US).

?**P. granulosa** Davis. Ithaca, Jl (Cush-CU).

P. nigrita Walsh. **SI** (Ashm).

P. parva (Cress.). Bolton (Cush-US).

[153] See work cited under Theroniini, page 935.

Tribe LABENINI [155]

LABENA Cresson

(The species of this genus are parasitic on the larvae of beetles of the families Buprestidae and Cerambycidae.)

L. apicalis Cress. Ithaca, Je (NYS), bred from *Chrysobothris femorata* (Oliv.). Specimens in the U.S. Nat. Mus. are from *Saperda puncticollis* Say, *Stenosphenus notatus* (Oliv.), *Pseudibidion unicolor* (Rand), and *Agrilus* sp. (all Cerambycidae).

L. confusa Roh. Ithaca, Jl 31 (Cush-CU). Recorded by Rohwer as a parasite of *Thrincopyge alacris* Lec. (Buprestidae), and *Chion cinctus* (Drury) (Cerambycidae).

L. grallator (Say). Ithaca, Sep (NYS); **LI** (Vier). Recorded as parasite of *Chrysobothris femorata* (Oliv.) (Buprestidae) and *Chion cinctus* (Drury) (Cerambycidae).

GROTEA Cresson

G. anguina Cress. Indian Ladder, Jl (Cush-CU); Ithaca, Je (Cush-CU); Nyack, *Zab* (?Brues-AM); West Farms, New Baltimore (?Brues-AM).

Tribe RHYSSINI [155]

RHYSSA Gravenhorst

(The species of this genus are parasitic on horntails of the genera Xeris and Sirex.)

R. lineolata (Kby.) (*albomaculata* Cress.). New Russia, Aug, *Bdy* (Cush-CU); Mt. Whiteface, 2000–4000 ft., Aug (Cush-CU); Erie Co, *Blackburn* (Roh); Ithaca, May–Sep (Cush-CU). Recorded by Rohwer as parasitic on *Xeris* sp.

R. persuasoria (L.). Saranac Inn, Jl (NYS); Gloversville, Sep (NYS); Oswego, Je (Roh-US); Port Byron, Je (Cush-CU); Castile, *EABradley* (Bdy); Ithaca, *Yuasa* (Bdy-CU). Recorded by Rohwer as parasitic on *Xeris* sp. and *Sirex* sp. Records associating this species with Coleoptera as hosts are probably erroneous.

RHYSSELLA Rohwer

(The species of this genus are parasitic on wood wasps of the genus Xiphydria.)

R. humida (Say). Ithaca, May, Aug (Cush-CU); Ft. Montgomery, Sep (Cush-Schott). Recorded by Rohwer as reared from *Xiphydria attenuata* Norton, *X. abdominalis* Say, and *X. erythrogaster* Ashm.

R. nitida (Cress.). New Russia, Aug, *Bdy* (Cush-CU); Mt. Whiteface, 2000–4000 ft., Aug (Cush-CU); Castile, EABradley (Bdy); Ithaca, May–Aug (Cush-CU); Taughannock, Jl (Cush-CU); McLean, May–Aug (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU). A common parasite of the larva of *Xiphydria maculata* Say (Rohwer).

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[155] The North American ichneumon-flies of the tribes Labenini, Rhyssini, Xoridini, Odontomerini, and Phytodietini. By S. A. Rohwer. Proc. U. S. Nat. Mus., 1920, **57**:405–474.

MEGARHYSSA Ashmead

(The species of this genus are parasitic on horntails of the genus Tremex.)

M. atrata (Fab.). Axton, Je, *M&H* (Ashm-CU); Raquette R. (Lint); Ithaca, Je–Jl (CU); Spencer, Je (Cush-CU); Taughannock, May, *Bdy* (Cush-CU); Trenton Falls, *Leon,Fbs* (Cush-CU); Livingston (Clarkson); Albany, Je (Lint-NYS); Menands, Jl, *Mattimore* (Lint-NYS); **SI** (Ashm); **LI** (Roh-US). Common probably everywhere in the State.

M. greenei Vier. Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, Je, Aug (Cush-CU); Ft. Montgomery, Je (Cush-Schott). Parasitic on larva of *Tremex columba* (L.).

M. lunator (Fab.). Wilmington, Aug, 1000–2000 ft. (Cush-CU); Rochester Jct., Je, *Leon* (Cush-CU); Castile, *EABradley* (Bdy); Portageville, Je (Cush-CU); Schuyler Co, Aug, *Burner* (Roh-US); Meridian, *Williams* (Lint-NYS); Taughannock, May (Cush-CU); Ithaca, May–Aug (Cush-CU); Elmira, Sep, *Diven* (Cush-CU); Albany, Sep (*Lint*); Loudonville (Felt); Livingston (Clarkson); Port Chester, Jl, *Sample* (Roh-US); **SI** (Ashm). Common probably everywhere in the State. Parasitic on larva of *Tremex columba* (L.).

Tribe ACOENITINI [156]

COLEOCENTRUS Gravenhorst

(Very little is known of the host relations of this genus, but the species are probably parasitic on the larvae of wood-boring Coleoptera.)

C. harringtoni Cush. Ithaca, Jl (Cush-CU); **LI**: Rockaway (AM).

C. pettitii Cress. Cranberry L., Je, *Htly* (Cush-NYS Col. For.).

C. rufus Prov. Johnstown, Ap, Poughkeepsie, Je, *Yg* (NYS).

C. similis Cush. Cranberry L., Je, *Gray* (Cush-CU); Buck I., Je, *Htly* (Cush-US); Ithaca, May–Je (Cush-CU); Ft. Montgomery, Je, *Schott* (Cush-CU).

AROTES Gravenhorst

A. amoenus Cress. Mt. Whiteface, 4872 ft., Jl, *Ald* (Cush-US); Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Labrador L., Je (Cush-CU); Batavia, Je (Cush-CU); Ithaca, Je (Mues-CU); Caroline to Harford, Je, *MacG&Bdy* (Mues-CU); Trenton Falls, Je, *Leon&Fbs* (Cush-CU); Ft. Montgomery, Je, *Schott* (Cush-US); **LI**: E. Hampton, Je (Mues-CU); Gardiners I., Je (Schott).

A. decorus (Say). Albany, Aug (NYS); Poughkeepsie, Je (NYS); Bronx Pk. (Ashm). Recorded as a parasite of *Xylotrechus colonus* (Fab.) (Cerambycidae), and *Tomoxia bidentata* (Say) (Mordellidae).

A. occiputalis Cress. (*apicatus* Ds.). **LI**: Cold Sp. Harb., Jl (Cush-CU). Recorded as a parasite of *Ophistomis bicolor* (Swed.).

A. vicinus Cress. New Russia, Aug, *Bdy* (Mues-CU); Long L., Aug (NYS); Ithaca, Jl (NYS). Recorded as a parasite of *Strangalepta vittata* (Oliv.), *Brachyleptura rubrica* (Say), and *B. vagans* (Oliv.) (all Cerambycidae).

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[156] The North American ichneumon-flies of the tribe Acoenitini. By Robert A. Cushman and S. A. Rohwer. Proc. U.S. Nat. Mus., 1920, 57: 503–523.

Tribe **XORIDINI** [157]

(The members of this tribe are parasitic on the larvae of wood-boring Coleoptera.)

XORIDES Latreille

X. albopictus (Cress.). Cranberry L., Je, Aug, *Htly* (Cush-NYS Col. For.); Poughkeepsie, May–Je, *Yg* (NYS). Recorded as parasitic on the cerambycid *Saperda discoidea* Fab.

X. frigidus (Cress.). Big Moose, Jl, *Yg* (NYS); Keene Val., Aug (CU).

X. humeralis (Say). Keene Val., Aug (Cush-CU); Ithaca, Je, Aug (Cush-CU); Utica, *Pergande* (Cush-US). Recorded as parasitic on the longicorn *Phymatodes varius* (Fab.).

X. stigmapterus (Say). New Russia, Aug, *Bdy* (Mues-CU); Cranberry L., Je, *Drk* (Cush); Wilmurt, Je, *Comstock* (Cush-CU); Spencer L., Je, *Rly&MacG* (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Je (Cush-CU). Recorded as a parasite of the longicorn *Leptura proxima* Say.

DEUTEROXORIDES Viereck

D. borealis (Cress.). Malone, Je (Cush-CU). Recorded as a parasite of the longicorn beetles *Atimia dorsalis* Lec., *Anacomis lignea* (Fab.), and *Tetropium velutinum* Lec.

D. caryae (Harr.). Syracuse, *Blkm* (Cush-US). Recorded as a parasite of the longicorn borer *Saperda discoidea* Fab., and, according to Rohwer, probably confined to this host.

D. vittifrons (Cress.). Cranberry L., Jl, *Htly* (Cush-US); Johnstown, Aug (NYS); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU). Recorded as a parasite of the longicorn beetle *Urographis fasciata* (DeG.).

POEMENIA Holmgren

P. albipes (Cress.). Cranberry L., Aug, *Htly* (Cush-US); Oswego, Je (Roh-US); Honeoye Falls, Aug, *Leon* (Cush-CU); Ithaca, Je–Aug (Cush-CU, NYS).

P. americana (Cress.). Ithaca, Jl (Cush-CU). Recorded as a parasite of *Paratimia conicola* Fisher and *Laspeyresia toreuta* Grt.; according to Rohwer the latter record may be an error.

Tribe **ODONTOMERINI** [157]

(The members of this tribe are probably always parasitic on the larvae of wood-boring Coleoptera.)

ODONTOMERUS Gravenhorst

O. abdominalis Cress. Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ithaca, *Yuasa* (Bdy-CU).

O. albotibialis Bdy. Ithaca, Jl, *Yuasa* (Bdy-CU).

O. atripes Roh. Ithaca to Ellis, Je (Cush-CU); L. George, *Zab* (?Brues-AM); Utica, *Pergande* (Cush-US).

O. bicolor Cress. Elizabethtown, Jl, *Yg* (NYS); Big Moose, Aug, *Yg* (NYS).

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[157] See work cited under Rhyssini, page 938.

O. canadensis Prov. Rock City, Je (Cush-CU); Ithaca, May, Je (Cush-CU); Freeville, Jl (Cush-CU); McLean, Aug 31, 1925, *SRobinson* (Bdy-CU); L. George, Jl, *Fisher* (Cush-US); Black Mt., L. George, Sep 4, *Leon* (Bdy-CU). Recorded by Rohwer as parasitic on *Dicerca divaricata* (Say), *D.* sp. (Buprestidae), *Leptura* sp. (Cerambycidae), and *Serropalpus* sp. (Melandryidae).

O. dichrous Roh. McLean Bogs, May, Sep 14, *Sib* (Cush, Bdy-CU).

O. mellipes (Say). Rock City, Ringwood (Bdy-CU); Ithaca, Jl–Sep (Cush-CU); McLean, Aug 8, *Sib* (Bdy-CU); Tioga Co (Bdy-CU); **SI** (Viereck); **LI:** Flatbush, Jl, *Zab* (Roh-US). Recorded as a parasite of *Parandra brunnea* (Fab.) (Cerambycidae).

O. strangaliae Roh. Oswego, Jl (Roh-US). The type was reared from *Ophistomis luteicornis* (Fab.) (Cerambycidae).

O. vicinus Cress. Ithaca, Je (Bdy-CU); McLean, May 31–Sep 21 (Cush, Bdy-CU).

Tribe **ICHNEUMONINI**

(*Pimplini* auctt.)

ICHNEUMON Linnaeus

(*Ephialtes* auctt.)

(Subgenus ICHNEUMON Linnaeus)

(The species of this subgenus are usually, if not always, parasitic on wood-boring or twig-boring Coleoptera.)

I. irritator Fab. Rock City, Je (Cush-CU); Ithaca, May–Aug (Bdy, Cush-CU); Coy Glen, May (Cush-CU); McLean, May, Je 23, *Sib* (Cush, Bdy-CU); Albany, May (NYS); **LI:** W. Bergen, *Juelich* (Cress); Wyandanch, May, (Cush-Schott). Specimens in the U.S. Nat. Mus. were reared from the longicorn *Obrium rufulum* Gahan. Also recorded as a parasite of *Leiopus variegatus* (Hald.) (Cerambycidae), and *Cryptorhynchus lapathi* (Lec.) (Curculionidae).

I. macer (Cress.). New Russia, Aug, *Bdy* (Cush-CU).

I. occidentalis (Cress.). Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, Jl (Cush-US); Johnstown, May (NYS); Albany, Jl (NYS).

I. pusio (Walsh). New Russia, Aug, *Bdy* (Cush-CU). A specimen in the U.S. Nat. Mus. is said to have been reared as a parasite of Xiphydria in maple, which, however, was infested also by a coleopterous larva.

(Subgenus CALLIEPHIALTES Ashmead)

(The species of this subgenus are parasitic on lepidopterous and coleopterous larvae living in twigs, weed stems, etc.)

I. comstockii (Cress.). Ithaca, *Comst* (holotype-US) from *Retinia comstockiana*, Aug (Cush-CU) from *Pinipestis zimmermani*; Port Chester, May (Cush-US). Specimens in the U.S. Nat. Mus. were reared as parasites of *Rhyacionia taxifoliella* Busck, *R. buoliana*, and *R. frustrana* Comst. (Tortricidae).

I. grapholithae (Cress.). Ithaca, Je (Cush-CU). Recorded as a parasite of *Laspeyresia caryana* Fitch (Tortricidae), *Acrobasis hebescella* Hulst (Pyralidae), and the sawfly *Euura salicis-nodus* Walsh.

I. notandus (Cress.). Ithaca, Ap–May (Baird-CU); West Farms, *Angus* (Cush-CU); **LI** (Cush-US). A common parasite of the goldenrod gall-maker *Gnorimoschema gallaesolidaginis* Rly. and other similar gall-making lepidopterous larvae. The U.S. Nat. Mus. has specimens from the above-named host and from *G. gallaeasteriella* Kell., *G. baccharisella* Busck, and *Walshia amorphella* Clem. (Lavernidae).

SCAMBUS Hartig

(*Pimpla* auctt., in part)

(The species of this genus are parasitic on lepidopterous, and, rarely, coleopterous, larvae.)

(Subgenus ISEROPUS Foerster)

S. coelebs (Walsh). New Russia, Aug, *Bdy* (Baird-CU); Potsdam, Je (Baird-CU); Speculator, Aug (Cush-NYS); Batavia, Mar (Cush-CU); Manlius, Aug–Sep, *SmHH* (Cress-CU); Fredonia, Jl (Baird-CU); Spring Lake, Jl (Baird-CU); Ithaca, Mar–Jl (Baird, Maidl-CU); Enfield, Jl (Maidl-CU); Ringwood, Aug (Maidl-CU); Motts Corners, Aug (Baird-CU); Labrador L., May (Maidl-CU); Freeville, Jl (Baird-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); McLean, Aug 3–31, *SRobinson* (Bdy-CU); Slingerlands, Albany, Karner, Gloversville, Je–Aug (NYS); NYC, Sep, *Cy* (Baird-CU); **LI:** Flatbush, Sep, *Zab* (Cush-US); Melville, May (Cush-Schott). An abundant parasite of Orgyia, Malacosoma, Thyridopteryx, etc., its larvae feeding gregariously on prepupae of the host.

(Subgenus EPIURUS Foerster)

S. alborictus (Cress.) (*investigatrix* Walsh). Adirondacks, Aug (Baird-CU); Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, Je–Nov (Cush, Baird-CU); Spring Lake, Jl (Baird-CU); Albany, Je (Cush-NYS). Parasitic on leaf-rolling lepidopterous larvae such as the apple leaf-roller, *Archips argyrospila* Wlk. Specimens in the U.S. Nat. Mus. are from *Eulia pinitubana, Episimus argutanus* Cl. (both Tortricidae), and *Zotheca tranquilla* Grt. (Noctuidae).

S. indagator (Cress.). Ithaca, Ap–Aug (Cush-CU, US); Spring Lake, Jl (Baird-CU); Van Cort. Pk., Jl (Baird-CU). Parasitic on larvae of many internally-feeding microlepidoptera. The U.S. Nat. Mus. has specimens reared from the grape berry moth (*Polychrosis viteana* Clem.), *Simaethis pariana* (Glyphipterygidae), a leaf-roller on box-elder, *Acrobasis indiginella* Zell., *Acrobasis caryella* (Pyralidae), *Dichomeris ligulella* Hbn. (Gelechiidae), the codling moth (*Carpocapsa pomonella* L.), *Coleophora* sp. on wild cherry, *Eulia pinitubana* (Tortricidae), and *Phycis juglandis* S. & A. (Pyralidae).

S. nigrifrons Vier. Albany, Jl, Aug (Cush-NYS). On the white-marked tussock caterpillar, *Hemerocampa leucostigma* S. & A.

S. pterophori (Ashm.) (*pterelas* auctt.). L. Pleasant, Je (NYS); Gloversville, Aug (NYS); Oswego, May (Cush-US, NYS); Buffalo, *EPV* (GCDavis); Rochester Jct., Jl, *Leon* (Baird-CU); Honeoye Falls, N. Fair Haven, Sep (Baird-CU); Clifton Sps., Aug, *Cy* (Baird-CU); Perry, Aug, *Emerson* (Cush-CU); Spring Lake, Jl (Baird-CU); Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); Ithaca, Mar–Aug (Baird, Cush-CU, NYS); Mud Cr., Jl, *MacG&Bdy* (Baird-CU); McLean Bogs, May (Cush-CU);

Poughkeepsie, May (Cush-NYS); **LI** (Cush-US). Parasitic on larvae of stem-boring and stem-gall-making Lepidoptera and Coleoptera such as *Gnorimoschema gallaesolidaginis* (Rly.), *G. gallaeasteriella* Kell., the European corn-borer (*Pyrausta nubilalis* Hueb.), *Stagmatophora ceanothiella* Cosens, *Lophoptilus eloisella* Clem. (Lavernidae), *Eucosma scudderiana* Clem. (Tortricidae), and the weevil *Mononychus vulpeculus* (Fab.).

S. tecumseh Vier. McLean, Aug 26, 1925, *SRobinson* (Cush-CU).

TROMATOBIA Foerster

(The species of this genus parasitize the egg cocoons of spiders.)

T. rufopectus (Cress.) (*scriptifrons* Cress.). Cranberry L., Je–Aug, *Htly* (Cush-NYS Col. For.); Ithaca, May–Aug (Bdy, Baird-CU); McLean Bogs, May (Baird-CU); Poughkeepsie, Je, *Yg* (NYS). A common parasite in the egg cocoons of the spiders of the genus Argiope. It was probably this species that Clarkson (Can. Ent., 1890, p. 122) recorded from NY under the name *Ichneumon aranearum* Ratz.

ZAGLYPTUS Foerster

(The species of Zaglyptus are parasitic within the egg cocoons of spiders.)

Z. incompletus (Cress.). Saranac L., Olean, Ithaca, Spring Lake, Jl–Sep (Cush-CU); McLean, Aug 30, 1925, *SRobinson* (Cush-CU). In the U.S. Nat. Mus. there is a series of specimens from Dallas, Texas, reared from the egg cocoon of a spider.

DELOMERISTA Foerster

(The species of this genus are parasitic within the cocoons of sawflies.)

D. novita (Cress.). Cranberry L., Je, *Htly* (Cush-US). There is no authentic published record of the hosts of this species. Such records as are published should be credited to one or another of the species of Epiurus.

PERITHOUS Holmgren

(The species of Perithous are parasitic in the nests of solitary wasps.)

P. pleuralis Cress. Ithaca, Je–Aug (Cush-CU, NYS); Freeville, Jl (Cush-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Taughannock, May (Cush-CU); Albany, Sep (NYS); Nyack, Aug, *Zab* (Cush-US). Specimens in the U.S. Nat. Mus. were reared from the nests of the wasp *Pemphredon concolor* Say, while others were reared from a sassafras stem containing the nest of a bee or a wasp.

SUBFAMILY TRYPHONINAE [159]

With a few exceptions the members of the tribes Catoglyptini, Tryphonini, and Cteniscini are parasitic on the larvae of sawflies. The members of the other tribes show a wide diversity in host relations.

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[159] The classification adopted for this subfamily is that of Thomson as elaborated by Schmiedeknecht in his *Opuscula Ichneumonologica,* with some slight modifications and the addition of the tribe Paniscini.

Tribe **CATOGLYPTINI**

(*Mesoleptini*)

(*Subtribe* **EUCEROSINA**)

(*Eumesiina* Thompson)

EUCEROS Gravenhorst

E. canadensis Cress. Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Ithaca, Je (Cush-CU); McLean Bogs, May (Cush-CU).

E. couperi Cress. Rock City, Je (Cush-CU); McLean Bogs, May (Cush-CU).

E. flavescens Cress. Ithaca, Aug (NYS); Bear Mt., Jl (Cush-Schott).

E. frigidus Cress. Cranberry L., Je, *Htly* (Cush-US).

E. medialis Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Je–Jl (Cush-CU); Caroline to Harford, Je, *MacG&Bdy* (Cush-CU); McLean, Je 30 (Bdy-CU).

E. thoracicus Cress. McLean Bogs, May (Cush-CU); Ithaca, Je (Cush-CU).

(*Subtribe* **THYMARIDINA**)

NELIOPISTHUS Thomson

N. densatus (Say). Rock City, Je (Cush-CU, US); McLean, Aug 1–18, *SRobinson* (Cush-CU).

N. luggeri (Ashm.). **LI:** Melville, May, *Schott* (Cush-US). Recorded as a parasite of a tineid larva on Comptonia.

HYBOPHANES Foerster

H. nasutus (Cress.). L. Placid (Cush).

ZAGRYPHUS Cushman

Z. nasutus (Cress.). "NY" (Ashm).

(*Subtribe* **OXYTORINA**)

CALLIDIOTES Foerster

C. albopleuralis (Prov.). Ithaca, Jl (Cush-US).

(*Subtribe* **PERILISSINA**)

(The members of this subtribe are parasitic on sawfly larvae. There are apparently no recorded hosts of American species.)

ECLYTUS Holmgren

E. perennis Davis. "NY" (GCDavis).

E. pleuralis (Prov.). Cranberry L., Je, *Htly* (Cush-US), from larva on yellow birch; Waterville, May, *Hawl* (Cush-CU); Ithaca, Ap–Jl (Cush-CU); Van Cort. Pk., Jl (Cush-CU).

SPANOTECNUS Foerster

S. bicolor (Cress.). Ithaca (Ashm-US), type of *Prionopoda ruficornis*; Poughkeepsie, Je (NYS).

S. concolor (Cress.). Waterville (Cush-CU); Johnstown, May, *Yg* (NYS); Oswego, May; Lancaster, Je, *EPV* (Vier-US); Rochester Jct., Je, *Leon* (Cush-CU); Rock City, Je (Cush-CU); Pike, Je, *Yg* (NYS); Norton's Landing, Cayuga L., May–Je, *SmHH* (Cress-CU); Ithaca, May–Je (Cush-CU); McLean, May–Je (Cush-CU); Spencer L., Je (Cush-CU).

S. decoloratus (Cress.) (*Perilissus southwicki* Ashm.). Ithaca, Jl (Cush-CU); Central Pk., NYC, *Southwick* (Ashm), type of *Perilissus southwicki*.

S. discolor (Cress.). McLean, Je 18, 1924, *Sib* (Bdy-CU).

S. iladus Davis. "NY" (Ds).

TREMATOPYGUS Holmgren

T. semirufus (Cress.). Norton's Landing, Je, *SmHH* (Cress-CU); Ithaca, May (Maidl-CU).

(*Subtribe* **CATOGLYPTINA**)

STIPHROSOMUS Foerster

S. fuscatus (Cress.). Saranac Inn, Jl (NYS).

PROVANCHERELLA Dalla Torre

P. rhopalocera (Prov.). "NY" (Ds).

(*Subtribe* **NOTOPYGINA**)

CTENOPELMA Holmgren

C. sanguineum (Prov.). Oswego, Je (Cush-US).

POLYCINETIS Foerster

P. limata (Cress.). "NY" (GCDavis).

NOTOPYGUS Holmgren

N. cymbaformus (Davis). Geneva, Je (*Cush*-US).

HOMASPIS Foerster

H. albipes Davis. "NY" (type-Amer. Ent. Soc.).

(*Subtribe* **HADRODACTYLINA**)

(*Mesoleptina* Thomson)

(The members of this subtribe are parasites on the larvae of sawflies.)

MESOLEPTIDEA Viereck

M. decens (Cress.). Rock City, Jl (Cush-CU); Norton's Landing, Je, *SmHH* (Cress-CU); Caroline, Ithaca, Je (Cush-CU); Delmar, Albany, May, Je (NYS).

M. zebrata (Davis). "NY" (type-Am. Ent. Soc.).

HADRODACTYLUS Foerster

H. elongatus (Cress.). Albany, Nassau, May–Je, *EPV* (NYS).
H. elongatus var. **coxatus** Davis. "NY" (type-Am. Ent. Soc.).
H. elongatus var. **femoratus** Davis. McLean, Jl 1, 1924, *Sib* (Cush-CU).

(*Subtribe* **EURYPROCTINA**)

EURYPROCTUS Holmgren

E. moyeni (Prov.). Saranac Inn, Jl (NYS); Poughkeepsie, May (NYS).
E. petiolatus Davis. Ithaca, *Chitt* (Cush-US).

DIALGES Foerster

D. frontalis Davis. Oswego, Je (Cush-US); Rock City, Je (Cush-CU); Ithaca, May–Je (Cush-US).

POLYTERUS Foerster

P. olympiae (Ashm.). Ithaca, Aug, Taughannock, Jl (Cush-CU). A series of specimens in the U.S. Nat. Mus. were reared as parasites of the sawfly *Pteronidea ventralis* (Say).

(*Subtribe* **MESOLEIINA**)

OPHELTES Holmgren

O. glaucopterus var. **flavipennis** (Prov.). Gloversville, Aug (NYS); Ithaca, Jl–Aug (CU); McLean, Aug 20, *SRobinson* (Bdy-CU); Richfield Sps., Oct, *Pergande* (Cush-US); Karner, Aug; West Farms, *Angus* (AM); **LI** (Cush-US). Parasite of the elm sawfly, Cimbex.

ABSYRTUS Holmgren

A. paniscoides (Ashm.). Central Pk., NYC (type-US).

ALEXETER Foerster

A. albotarsatus (Prov.). Ithaca, Je–Sep (Ashm-CU).
A. canaliculatus (Prov.). Spring Lake, Jl, *Bdy* (Cush, Maidl-CU); Norton's Landing, Je, *SmHH* (Cush, Maidl-CU); Ithaca, Jl (Bdy-CU); Ellis to Slaterville, Je, *MacG*, *Bdy* (Cush-CU).
A. honestus (Cress.). "NY" (GCDavis); Rensselaer, Jl (NYS).
A. riparius (Davis) (?*Mesoleptus*). McLean, Je 30, 1921 (Cush-CU).

MESOLEIUS Holmgren

M. conformus Davis. "NY" (GCDavis).
M. convergens Davis. Rock City, Je (Cush-CU); McLean, May (Cush-CU).
M. mellipes (Prov.). Oswego, Jl (Cush-US); McLean, Aug 1, 1925, *SRobinson* (Cush-CU).
M. pulchronotus Davis. Portageville, Je (Cush-CU).

M. submarginatus (Cress.). Adirondacks, Aug (Cush-CU); Rock City, Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May–Je (Cush-CU); McLean, Aug 27, 1925, *SRobinson* (Cush-CU).

SPHECOPHAGA Westwood

S. burra (Cress.). Cranberry L., Jl, *Htly* (Cush-US); Bolton (US); New Baltimore, *Zab* (GCDavis); Central Pk., NYC, Ap, *Zab* (AM). Parasitic in nests of Vespa.

Tribe TRYPHONINI

(*Subtribe* TRYPHONINA)

(Including POLYBLASTINA Schmiedeknecht)

SYNOECETES Foerster

S. sedulus (Cress.). "NY" (Davis).

COSMOCONUS Foerster

C. canadensis (Prov.). Saranac Inn, Je, *Yg* (NYS).

OTLOPHORUS Foerster

O. innumerabilis Davis var. **feria** Davis. Waterville, Mix Cr. Val., Je, Rock City, Je, Ithaca, May (all Cush-CU).

EPACHTHES Foerster

E. basilicus Davis. Rock City, Je, Ithaca, May–Je (Cush-US).

QUADRIGANA Davis

Q. americana (Cress.). Ithaca, May, Van Cort. Pk., Jl (Cush-CU).

TRYPHON Fallén

T. communis Cress. Elizabethtown, Jl (NYS); Rock City, Mix Cr. Val., Je (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Jl, Spencer L., Je (Cush-CU, US).

T. communis var. **clypeatum** Prov. Oswego, Je (Cush-US); Rock City, Mix Cr. Val., Je (Cush-CU); Ithaca to Ellis, Je, *MacG, Bdy* (Cush-CU); Ithaca, May–Je (Cush-CU); Center Lisle, Je (Cush-CU).

T. seminiger Cress. Rock City, Je, Ithaca, Je–Jl (Cush-CU); Dryden L., Je, *MacG&Bdy* (Cush-CU); Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Spencer L., Je (Cush-CU); Nyack, *Zab* (Cush-US); **LI** (Cush-US).

POLYBLASTUS Hartig

P. pedalis (Cress.). Black Br., Je (Cush, Maidl-CU); Shelving Rock Br., L. George, Sep 2, *Leon* (Bdy-CU).

P. tibialis (Cress.). "NY" (Ashm).

SCOPIORUS Foerster

S. analis (Cress.). McLean, Aug 31-Sep 20, *Sib, SRobinson* (Bdy-CU).
S. subcrassus (Cress.). Peru, Ithaca, Je (Cush-CU).

ERROMENUS Holmgren

E. dimidiatus (Cress.). L. Placid, Aug (NYS); Norton's Landing, Cayuga L., Je, SmHH (Cress-CU); Homer, Ithaca, McLean, Slaterville to Caroline, May–Jl (Cush-CU).

MONOBLASTUS Hartig

M. varifrons (Cress.). McLean, May (Cush-CU).

(*Subtribe* **SCOLOBATINA**)

SCOLOBATES Gravenhorst

S. auriculatus (Fab.). "NY" (Ashm.).

Tribe **CTENISCINI**

MICROPLECTRON Foerster

M. albilineatum (Walsh). Cranberry L., Je, *Htly* (Cush-US).

CTENISCUS Haliday

C. clypeatus Cress. Peru, Je (Cush-CU). Determination queried.
C. consors Cress. Ithaca, Aug (Cush-CU). Determination queried.
C. flavicoxae Cress. W. Danby, Je, *MacG* (Cush-CU).

ANECPHYSIS Foerster

A. curvineura Davis. Ithaca, Je, *Chitt* (Cush-US, CU).

EXYSTON Schiødte

E. abdominalis Cress. var. **rufinum** Davis. "NY", cotype.
E. variatum Prov. "NY" (Davis).

Tribe **PANISCINI**

(The members of this tribe are externally parasitic on lepidopterous larvae. The egg is relatively large and is attached by a stalk to the skin of the host. The feeding larva uses the egg shell as a means of keeping its hold on the active host.)

PANISCUS Schrank

P. brevicornis Cush. "NY" (Cush-US).
P. geminatus (Say). Newport, May (NYS); Manlius, Sep, Norton's Landing, Cayuga L., Je, *SmHH* (Cress); Ithaca, common (Ashm-CU); Croton-on-Hudson (Felt); Poughkeepsie, Jl (NYS); Nyack, *Zab*; **SI**, May (Ashm-Ds); **LI**: Fishers I., *Zab* (Ds).

P. geminatus var. **sayi** Cush. Oswego, Je, Ithaca, Jl (Cush-US).

P. leo Cush. Oswego, *Ludlow* (type-US); McLean, Aug 31, 1924, *Sib* (Cush-CU).

P. smithi Cush. Beaver Cr., Jl 10, 1924, *Sib* (Cush-CU).

P. unguicularis Cush. Ithaca, Jl (Cush).

PARABATES Foerster

P. crassus Cush. Oswego, May (type-US).

P. latungula Thomson subsp. **deceptor** (Morl.) Bdy. Ithaca, *Yuasa* (Bdy-CU).

P. monticola Cush. Oswego, Oct (Cush-US).

Tribe **DIPLAZONINI**

(*Bassini* Ashmead)

(The members of this tribe are parasitic on syrphid flies. The egg, at least in some cases, is deposited in the egg of the host, the adult parasite emerging from the host puparium.)

DIPLAZON Nees

(*Bassus* auctt.)

D. concinnus (Cress.). Oswego, Je (Cush-US); Ithaca, May–Sep (Cush-CU).

D. laetatorius (Fab.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); Oswego (US); Rochester Jct., Jl, *Leon* (Cush-CU); Honeoye Falls, May (Cush-CU); Spring Lake, Jl (Cush-CU); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU), det. as *sycophanta* Cr.; Ithaca, May–Sep, McLean Bogs, May 29 (Cush, Maidl-CU); Mud Cr., Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); Binghamton, Aug, *Jackson* (Cush-US); Albany, May, *Yg* (NYS). This is a cosmopolitan and very variable species. It has a long list of synonyms and named varieties. The latter serve no useful purpose, as they are not well defined but are merely steps in a gradual variation.

D. orbitalis (Cress.). "NY" (GCDavis).

D. pulchripes (Prov.). Cranberry L., Jl, *Htly* (Cush-NYS Col. For.); Ithaca, May–Sep (Cush-CU).

D. scutellaris (Cress.). Manlius, *SmHH* (Cress-CU); Rock City, Ithaca, Je (Cush-CU).

ENIZEMUM Foerster

E. tibiale (Cress.). Poughkeepsie, May, *Yg* (NYS).

HOMOTROPUS Foerster

H. bicapillaris (Walsh). Olean, May, *Yg* (NYS).

H. bicapillaris var. **albopictus** Davis. Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Rock City, Jl (Cush-CU); Ithaca, Jl–Aug (Cush-CU); McLean, Je 18, *Sib* (Bdy-CU).

H. decoratus (Cress.). Sport I., Sacandaga R., Je, *Alex* (Cush-CU).

H. humeralis (Prov.). Caroline to Harford, Je, *MacG&Bdy* (Cush, Maidl-CU).

PROMETHES Foerster

P. costalis (Prov.). Oswego, Jl (Cush-US); Mix Cr. Val., Je (Cush-CU); Spring Lake, Jl, *Bdy* (Cush-CU); Ithaca, McLean, Taughannock, May–Jl (Cush-CU); Mud Cr., Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU); Rhinebeck, Jl, *Cy* (Cush-CU).

P. elongatus (Prov.). Newport, May (NYS); Ithaca, May, Dryden L., Je (Cush-CU).

P. ruficrus (Walsh). Sodus Pt., Aug (NYS); Dryden L., Je, Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU); Freeville, Jl (Cush-CU); Ithaca, May–Aug (Cush-CU, US).

SYRPHOCTONUS Foerster

S. agilis (Cress.). Oswego, Je (Cush-US); Ithaca, May–Jl, McLean, May, Van Cort. Pk., Jl (Cush-CU).

S. minimus (Cress.) (*pacificus* Cress.). Ithaca, May–Jl (Cush-CU, US); Mud Cr., Slaterville to Caroline, Je, *MacG&Bdy* (Cush-CU); McLean, May (Cush-CU); W. Danby, Je, *MacG* (Cush-CU); **LI** (Cush-US).

S. pleuralis (Cress.). Ithaca, May (Cush-CU).

ZOOTREPHES Foerster

Z. antennatus Davis. Ellis to Slaterville, Dryden L., Je, *MacG&Bdy* (Cush-CU); Ithaca, Mar–Sep (Cush-CU); Taughannock, May (Cush-CU).

Z. compressiventris (Cress.). Axton, Je, *MacG&H* (Cush-CU); Cranberry L., Je, *Htly* (Cush, Maidl-NYS Col. For.); Waterville, Honeoye Falls, May, Ithaca, Ap–Sep (Cush-CU); Mud Cr., Je, *MacG&Bdy* (Cush-CU); McLean Bogs, May (Cush-CU); W. Danby, Je, *MacG* (Cush-CU); Stuyvesant Falls, May (Cush-CU).

Tribe **ORTHOCENTRINI**

ATMETUS Foerster

A. tetrazonatus Ashm. Ithaca, Ap–Aug (Maidl-CU).

DELETER Foerster

D. suffuscus Davis. Wilmington, Aug (Cush-CU).

D. undulatus Davis. Mt. Whiteface, 2000–4000 ft., Aug (Cush-CU); Ellis to Slaterville, Je (Cush-CU).

TAPINOPS Foerster

T. pusillus (Walsh). Mt. Whiteface, 2000–4000 ft., Aug (Cush-CU); L. Placid, Aug (Ashm-US); Gloversville, Mar (NYS); Oswego, Jl (Ashm-US); Ithaca, Mar (Maidl-CU); McLean, Aug 17–Sep 30, *Sib*, *SRobinson* (Bdy-CU).

Tribe **EXOCHINI**

(The members of this tribe are, so far as is known, parasitic in the pupae of Lepidoptera.)

CHORINAEUS Holmgren

C. carinatus Cress. Oswego, Jl (Roh-US).

C. cariniger (Walsh). Piseco L., Aug (NYS).

C. costatus Davis. Rock City, May (Cush-US); W. Danby, Je (Cush-CU).

C. onitis Davis. Rock City, Je (Cush-US); W. Danby, May (Cush-CU).

COLPOTROCHIA Holmgren

C. trifasciata (Cress.). "NY" (GCDavis).

EXOCHUS Gravenhorst

E. atriceps Walsh. Ellis to Slaterville, Je, *MacG&Bdy* (Cush-CU).

E. dorsalis Cress. McLean, Sep 12, *Sib* (Bdy-CU); Pelham Bay Pk., Aug (Cush-CU).

E. dorsalis var. **annulicrus** Walsh. Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); **LI:** Flatbush, May, *Zab* (Bdy-CU); Rockaway (Bdy-AM). Recorded as a parasite of *Archips rileyana* Gr. (Tortricidae).

E. pallipes Cress. Essex Co, Jl (NYS); Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); McLean, Aug 12, *SRobinson* (Bdy-CU); Ithaca, May–Jl, Van Cort. Pk., Jl (Cush-CU); **LI:** Flatbush, Je, *Zab* (Bdy-CU). A parasite of *Archips rileyana* Gr. and *A. cerasivorana* Fitch (Tortricidae).

E. pleuralis Cress. Oswego, Jl (Ashm-US).

E. semirufus Cress. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, Sep (Cush-CU); Albany, May (NYS).

METACOELUS Foerster

M. laevis (Cress.). Manlius, Aug, *SmHH* (Cress-CU); Ithaca, Je, Aug (Cush, Ashm-CU); Albany (NYS); **LI:** Flatbush, Je, *Zab* (Cush, Bdy-CU).

M. mansuetor (Grav.). Ithaca, May–Jl (Ashm,Cush-CU,US). A cosmopolitan parasite of the clothes moth. Also recorded from *Pyralis farinalis* L.

TRICLISTUS Foerster

T. curvator (Fab.). Wilmington, Aug (Cush-CU); Ilion, Je, *Yg* (NYS); Oswego, Je (Cush-US); Spring Lake, Jl (Cush-CU); Ithaca, Je–Jl, Taughannock, Jl, McLean, May (Cush-CU); Karner, May, *Yg* (NYS); Van Cort. Pk., Jl (Cush-CU). Recorded in the U.S. Nat. Mus. as a parasite of *Eulia velutina* Wlk., *Archips rileyana* Gr. (Tortricidae), and the European *Nothris verbascella*. In the U.S. Nat. Mus. are also specimens reared from *Simaethis pariana* Clerck (Glyphipterygidae), and the grape berry moth, *Polychrosis viteana* Clem.

T. pygmaeus (Cress.). Ithaca, Je (Vier-CU). Recorded by Herrick as a parasite of the ugly-nest tortricid, *Archips cerasivorana* Fitch.

T. propinquus (Cress.). Saranac L., Aug (Cress-CU); Manlius, Sep, *SmHH* (Cress-CU); Waterville, Rock City, Je, Ithaca, May–Jl (Maidl-CU); Ellis to Slaterville, Je, *MacG&Bdy* (Maidl-CU); McLean Bogs, May–Aug, *Sib* (Mues-CU).

Tribe METOPIINI

(The members of this tribe are parasitic in lepidopterous pupae.)

METOPIUS Panzer

M. pollinctorius (Say). **LI:** Wading R., Aug (Ds).

SUBFAMILY OPHIONINAE [160]

Tribe OPHIONINI

(The members of this tribe are internal parasites of lepidopterous larvae.)

ENICOSPILUS Stephens

E. flavus (Fab.) (*appendiculatus* Felt). "NY" (Felt-NYS).

E. purgatus Say. Ithaca, Je–Sep (Felt); McLean, Aug 19–Sep 4, *SRobinson, Sib* (Bdy-CU); Albany, Je–Aug (NYS); West Farms (Hooker-AM); **LI:** Flatbush, Sep, *Zab* (Hooker-US); Parkville (Hooker-AM). Recorded as a parasite of *Scotogramma trifolii* Rott., *Ceramica picta* Harr. (both Noctuidae), *Schizura unicornis* S. & A. (Notodontidae), and the army worm, *Cirphis unipuncta* Haw.

E. purgatus var. **arcuatus** Felt. Ithaca, Jl, *Stedman* (Felt); Albany, May, *Hill* (Felt-NYS); Poughkeepsie, *Yg* (Felt); West Farms; NYC (Felt,Joutel); **LI** (Hooker-US). A specimen in the U.S. Nat. Mus. was reared from *Scoliopteryx libatrix* L. (Noctuidae).

EREMOTYLUS Foerster

E. glabratus (Say) (*arctiae* Ashm.). Ithaca, Aug (Felt-NYS,CU). Parasite of the fall web-worm, *Hyphantria cunea* Dru., *Isia isabella* S. & A., *Diacrisia virginica* Fab., and *Halisodota agassizii* Pck. (all Arctiidae).

E. macrurus (L.). Gloversville (NYS), from *Samia cynthia* Dr.; Ithaca, Jl, Aug, *Stedman* (Felt); McLean, Sep 13, *Sib* (Bdy-CU); Albany, Mar (NYS); West Farms; NYC, *Joutel* (Felt); **LI** (Hooker-US). Recorded as parasite of *Apatelodes torrefacta* S. & A. (Eupterotidae), *Telea polyphemus* Cr., *Samia cecropia* L., and *Callosamia promethia* Dru.

OPHION Fabricius

O. bifoveolatum Brullé. Norton's Landing, Cayuga L., Je, *SmHH* (Cress-CU); Ithaca, May–Je (Cress,Felt-NYS,CU); McLean, *Fbs* (CU); West Farms (?Brues-AM); **LI** (Hooker-US).

O. bilineatum Say. Newport, Johnstown, Ilion, May–Jl (NYS); Oswego, Je (Hooker-US); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ithaca, May–Oct (Felt-NYS,CU); McLean, Je 29–Sep 22 (Bdy-CU); Albany, Karner, May (Felt-NYS); Nyack, *Zab* (Hooker-AM); West Farms (Hooker-AM); **SI** (Vier); **LI:** (Hooker-US); Flatbush, Je, *Zab* (Hooker-US). Parasite on the silver-spotted skipper, *Eudamus tytyrus* Fab.

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[160] The ichneumon-flies of America belonging to the tribe Ophionini. By Charles W. Hooker. Trans. Am. Ent. Soc., **38**: 1–176.

O. slossonae Davis (*ferruginipennis* Felt). Ithaca, rare, Aug 19, 1924, one male, *Babiy*, Sep 1, 1925, one female, *Bdy*, Sep 3, 18, 1924, *Fbs*, a male and a female at light (CU); NYC, *Joutel* (Felt-NYS).

THYREODON Brullé

T. atricolor (Oliv.) (*brullei* Vier., *morio* auctt.). Peru, Je, *Mix* (CU); Ithaca, Je–Jl (CU); McLean, Aug 11–Sep 16, *Sib*, *SRobinson* (Bdy-CU); Nyack (Hooker-US); West Farms (Hooker-AM); **LI:** Flatbush, Jl, *Zab* (AM). Parasitic on larvae of sphinx moths such as *Lapara coniferarum* S. & A. and *Paonias excaecatus* S. & A.

Tribe **ANOMALINI**

(*Nototrachini* Ashmead)

ANOMALON Jurine not auctt.

(*Nototrachys* Marshall)

A. ejuncidum Say. "NY" (Ashm).

NEOGREENEIA Viereck

N. picticornis Vier. Ithaca, *Chitt* (Cush-US).

Tribe **THERIONINI**

(*Anomalini* Ashmead)

(The species of this tribe are internal parasites of lepidopterous pupae.)

HABRONYX Foerster

H. flavistigma Davis. "NY", type.

HETEROPELMA Wesmael

H. datanae Rly. **LI:** Long Beach, Jl (Gahan-Schott). Recorded as a parasite of the black-walnut caterpillar, *Datana integerrima* G. & R.

H. flavicorne (Brullé). Saranac Inn, Canandaigua L., Jl (NYS); Ithaca, Aug (US); McLean, Aug 28, *Sib* (Bdy-CU); Nyack, *Zab* (AM); **SI** (Ashm); **LI** (US). Specimens in the U.S. Nat. Mus. are from the yellow-marked apple-worm, *Datana ministra* Dr., and other species of Datana.

AGRYPON Foerster

A. chlamidatum (Prov.). McLean (Cush-US).

LABRORYCHUS Foerster

L. analis (Say). Ithaca, Jl (Mues-CU,NYS); McLean, Jl 18–Sep 7, *Sib* (Cush-CU); Poughkeepsie, May–Jl, *Yg* (NYS). This is a common parasite of the tent caterpillars, specimens in the U.S. Nat. Mus. having been reared from the American tent caterpillar, *Malacosoma americana* F., *M. fragilis* Stretch, and the forest tent caterpillar, *M. disstria* Hbn.

PARANOMALON Viereck

(*Anomalon* auctt.)

P. ambiguum (Nort.). Woodworth's L., May (NYS).

P. clavipes (Davis). Oswego, Je (Gahan-US).

P. curtum (Davis). Manlius, *SmHH* (Cress-CU).

P. edwardsii (Cress.). **LI** (Gahan-US).

P. exile (Prov.). Lyons Falls (Felt); Glens Falls, Jl (NYS), both from cocoons of the forest tent caterpillar, *Malacosoma disstria* Hbn.

P. ferrugineum (Nort.). Manlius, *SmHH* (Cress-CU).

P. filiforme (Prov.). Big Moose, Jl (NYS).

P. hyalinum (Nort.). Mt. Whiteface, Jl, *Ald* (Gahan-US).

P. laterale (Brullé). "NY" (Nort).

P. nigrorufum (Nort.). "NY" (Nort). A specimen in the U.S. Nat. Mus. is said to have been reared from *Datana contracta* Wlk. (Notodontidae).

P. relictum (Fab.). "NY" (Nort). Specimens in the U.S. Nat. Mus. were reared from *Datana* sp.

P. semirufum (Nort.). Albany (Nort); Newport, May, *Yg* (NYS).

THERION Curtis

T. fuscipenne (Nort.). McLean, Jl 20–Aug 20, *SRobinson* (Bdy-CU); **LI**: Fire I., Aug (Gahan-Schott). Recorded as a parasite of *Merolonche lupini* Gr. and *Apatela hastulifera* S. & A. Specimens in the U.S. Nat. Mus. were reared from *Acronycta americana* Harr., *A. hesperida* Sm., and the "salt-marsh caterpillar".

T. hyaline (Nort.). McLean, Je 30, 1921 (Cush-CU).

T. morio (Fab.) (*Exochilum mundum* Say). Manlius, *SmHH* (Cress-CU); Ithaca, Je–Aug (CU,US); Freeville, Jl, *Comstock* (CU); McLean, Jl 20–Sep 17, *Sib* (Bdy-CU); Binghamton, *Jackson* (Cush-US); **SI** (Ashm-Ds); **LI**: Flatbush, *Zab* (US); Fishers I., *Zab* (AM). Recorded as a parasite of *Vanessa cardui* L., *Papilio marcellus* Cr., *Zerene catenaria* Dr. (Geometridae). A specimen in the U.S. Nat. Mus. is said to have been reared from *Halisidota maculata* Harr. (Arctiidae).

T. occidentale (Cress.). **SI**, Aug (Gahan-Schott).

T. tenuipes (Nort.). "NY" (Cress-CU). Recorded as a parasite of *Diacrisia virginica* Fab. (Arctiidae).

Tribe **CAMPOPLEGINI**

(With a few exceptions, the members of this tribe are internal parasites of lepidopterous larvae.)

CAMPOPLEGIDEA Viereck

C. alia (Nort.). Ithaca, Jl (NYS).

C. argentea (Nort.). Ithaca, Je (NYS); McLean, Aug 31, 1925, *SRobinson* (Cush-CU).

C. diversa (Nort.). Cranberry L., Je, *Htly* (Cush-US); Manlius, Aug, *SmHH* (Ashm-CU); Ithaca, *Chitt* (Cush-US); Ft. Montgomery, Je (Cush-Schott); **SI** (Ashm-Ds).

C. laticincta (Cress.). **LI:** Flatbush, Je, Jl, *Zab* (Cush-US, AM).

C. minor (Prov.). Ithaca, Karner, Sep–Oct (NYS).

VIERECKIANA Strand

V. bellulus (D.T.). McLean, Aug 26, 1924, *Sib* (Cush-CU).

V. brachiator (Say). McLean, Aug 18–24, *SRobinson* (Cush-CU).

V. villosa (Nort.). Albany, Aug, Poughkeepsie, May (NYS).

V. vitticollis (Nort.). Oswego, Aug (Gahan-US); McLean, Aug 28, 1924, *Sib* (Cush-CU); Karner, Poughkeepsie, Je, *Yg* (NYS).

ZASTENOMORPHA Viereck

Z. lamina Vier. Ithaca, Jl (Cush-US).

CASINARIA Holmgren

C. orgyiae (How.). Corinth (Felt). A parasite of the white-marked tussock-moth, *Hemerocampa leucostigma* S. & A.

HYPOSOTER Foerster

H. annulipes (Cress.). Oswego, Jl (Ashm-US); Ithaca, *Chitt* (Cush-US); **LI:** Huntington, Ap (Cush-Schott). Recorded as a parasite of *Mamestra picta* Harr. (Noctuidae), *Gelechia pseudoacaciella* Chamb. (Gelechiidae), and *Acrobasis indigenella* Zell. (Pyralidae). A specimen in the U.S. Nat. Mus. was reared from *Autographa precationis* Guen., and another from *Heliothis obsoleta* Fab. (Noctuidae).

H. clisiocampae (Weed). Ithaca, *Liu* (Mues-CU); Crataegus Hill, Je, *Htly* (Cush-NYS Col. For.). The types and the Ithaca specimens were reared from the tent caterpillar *Malacosoma americana* Fab., and there is a specimen in the U.S. Nat. Mus. reared from the brown-tail moth, *Euproctis chrysorrhoea* L.

H. fugitivus (Say). Lockport, Aug (NYS); Ithaca, *Liu* (Mues-CU), from *Malacosoma americana*; Albany, Jl (NYS); Haines Falls, *Rusk* (Lint-NYS), from *Oedemasia concinna*. Recorded as a parasite of the tent caterpillars *Malacosoma americana* Fab. and *M. disstria* Hbn. (Lasiocampidae), *Anisota senatoria* S. & A., *A. stigma* Fab., *A. virginiensis* Dru., *A. rubicunda* Fab. (Citheroniidae), *Hemileuca maia* Dru., *Euchaetes egle* Dr. (Arctiidae), *Apatura clyton* B. & LeC., *A. celtis* B. & LeC. (Nymphalidae), the skipper *Pholisora catullus* Fab., and *Acrobasis indigenella* Zell. (Pyralidae).

H. geometrae (Ashm.). Cranberry L., Aug, *Htly* (NYS Col. For., US); Hamden, Je (Cush-US); McLean, Aug 1 (Cush-CU).

H. pallipes (Prov.). Oswego, May (Cush-US); Buffalo, Sep, MrsNEDavis (Cush-US). Two specimens in the U.S. Nat. Mus. were reared at Washington, DC, from a Hemerocampa, probably *leucostigma*.

H. pilosulus (Prov.). McLean, Aug 1, 1925, *SRobinson* (Cush-CU).

CYMODUSA Holmgren

C. distincta (Cress.). Oswego, Je, Aug (Cush-US); Ithaca, *Chitt* (Cush-US); Slingerlands, Jl (NYS); **LI** (Cush-US).

SAGARITIS Holmgren

S. consimilis (Ashm.). Oswego, Je (Cush-US); Ithaca, *Chitt* (Cush-US); **LI** (Cush-US). Parasitic on cutworms, specimens in the U.S. Nat. Mus. having been reared from *Feltia* sp. and *Agrotis ypsilon* Rott.

S. oxylus (Cress.). Mt. Whiteface, summit, Jl, *Ald* (Cush-US); Ithaca, *Chitt* (Cush-US); McLean, Aug 1 (Cush-CU). Recorded as a parasite of the army worm, *Cirphis unipuncta* Haworth. Specimens in the U.S. Nat. Mus. also from *Epiglaea apiata* and *Laphygma frugiperda* S. & A. (Noctuidae).

S. provancheri (D.T.). Rotterdam, Aug, *Searls* (Gahan-US). Recorded as a parasite of *Laphygma frugiperda* S. & A. (Noctuidae). In the U.S. Nat. Mus. also specimens reared from the European corn-borer, *Pyrausta nubilalis* Hbn., *Heliothis obsoleta* F., *Neleucania* sp. probably *diffusa*, *Prodenia ornithogalli* Guen., *Polia stricta* Wlk., *Hadena procincta* Gr., *Triphaena confusa* (all Noctuidae).

OLESICAMPE Foerster

(The members of this genus are parasitic on sawfly larvae.)

O. argentifrons (Cress.). Ithaca, Je, Albany, Sep (NYS).

PYRACMON Holmgren

(The species of Pyracmon are parasitic on wood-boring coleopterous larvae.)

P. macrocephalum Prov. Syracuse, *Blkm* (Cush-CU).

NEMERITIS Holmgren

N. canescens (Grav.). Ithaca, Nov (Mues,Gahan-US,CU); **LI**, Aug (US). A cosmopolitan parasite of lepidopterous pests in stored products.

N. ruficoxa (Prov.). Manlius, Sep, *SmHH* (Ashm-CU); Oswego (Cush-US); **LI**: Barren I., Flatlands, Aug, *Zab* (Cush-US).

IDECHTHIS Foerster

I. nigrocoxalis Cush. Youngstown (type-US). Bred from *Euzophera semifuneralis* Wlk. (Pyralidae).

CAMPOPLEX Gravenhorst

C. ferrugineipes (Ashm.). McLean, Sep 19, 1924, *Sib* (Cush-CU).

C. nigricincta (Ashm.). L. Placid, Aug (Ashm-US); Freeville, Aug (Ashm-CU).

C. polychrosidis Vier. **LI**: Richmond Hill, Jl, *Kf* (paratype-US).

ECHTHRONOMAS Foerster

E. ochreofrons Cush. McLean (Cush-US).

ANGITIA Holmgren

A. plutellae Vier. Ithaca, Jl, *Mues* (Cush-US). Host: *Plutella maculipennis* Curt. (Yponomeutidae).

A. tibiator (Cress.). Albany, Je (NYS).

SESIOPLEX Viereck

S. depressus Vier. Ithaca, *Chitt* (Cush-US). Parasites of larva of the goldenrod gall-maker, *Gnorimoschema gallaesolidaginis* (Rly.).

EULIMNERIA Schmiedeknecht

E. valida (Cress.). Cranberry L., Je, *Htly* (Cush-NYS Col. For.); Ithaca, Jl (Vier-US, NYS); Poughkeepsie, Je (NYS). A common parasite of the fall web-worm, *Hyphantria cunea* Dru.

DIOCTES Foerster

D. obliteratus (Cress.) (*Thymaris slingerlandana* Ashm.). Ithaca, Aug, *Sling* (Ashm-CU, US); Westchester Co, Oct (Gahan-US). A common parasite of the grape berry moth. Specimens in the U.S. Nat. Mus. are from the oriental peach moth (*Laspeyresia molesta* Busck), an introduced apple leaf-roller (*Simaethis pariana* Clerck), and *Eulia velutinana* Wlk.

D. salicicola (Ashm.). Albion, *Felt* (Ashm), from *Ypsolophus ligulellus* Hbn. The type was reared from a gall on willow.

BATHYPLECTES Foerster

(Several species of this genus are known to be parasitic on curculionid larvae, and it is probable that all are.)

B. exigua (Grav.). Ithaca, Mues (Cush-US). Specimens in the U.S. Nat. Mus. from *Phytonomus nigrirostris* (Fab.) and *Hypera punctata* (Fab.), the clover-leaf weevils.

Tribe CREMASTINI [161]

(With the exception of a few species of the subgenus Zaleptopygus, all the species of this tribe the habits of which are known are parasites of lepidopterous larvae.)

EIPHOSOMA Cresson

(Subgenus BRACHIXIPHOSOMA Viereck)

E. pyralidis Ashm. Ithaca, Jl (Ckll-US); Nyack, *Zab* (Ckll-US); **LI:** Flatbush, *Zab* (AM). The type was reared from a "pyralid on Solidago."

PRISTOMERUS Curtis

P. fuscipennis Cush. Oswego, Aug (paratype-US).

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[161] A revision of the hymenopterous insects of the tribe Cremastini of America, north of Mexico. By Robert A. Cushman. Proc. U.S. Nat. Mus., 1917, **53**: 503–551.

PSEUDERIPTERNUS Viereck

P. radiolatus (Prov.). Larchmont (AM); **LI**: (Vier-US); Flatbush, *Zab* (AM).

CREMASTUS Gravenhorst

(Subgenus **CREMASTUS** Gravenhorst)

C. decoratus Grav. **LI** (Cush-US). Host: *Rhyacionia buoliana* Schiff. (Tortricidae).

C. facilis (Cress.). Oswego, Aug (Cush-US).

C. forbesii Weed. Mt. Whiteface, summit, Jl, *Ald* (Cush-US); Oswego, Aug (Cush-US). Specimens in the U.S. Nat. Mus. reared from *Gelechia trialbamaculella* Chamb., *G. confusella* Chamb. (Gelechiidae), and *Eulia velutinana* Wlk. (Tortricidae).

C. graciliventris Cush. McLean, Aug 28, 1924, *Sib* (Cush-CU).

(Subgenus **ZALEPTOPYGUS** Viereck)

C. hartii (Ashm.). Ithaca, Je–Sep (Ashm).

C. dorcaschemae Cush. Syracuse, *Blkm*, *Drk* (type-US). Types reared from pupal cells of the longicorn beetle *Dorcaschema nigrum* (Say).

C. incompletus (Prov.). Oswego, Jl (Cush-US).

C. retiniae (Cress.). Ithaca (type-US), from *Rhyacionia rigidana* Fern.; **SI** (Vier, Ashm-Ds).

C. rostratus Cush. "NY", Aug (type-US).

Tribe **PORIZONINI**

ORTHOPELMA Taschenberg

(These live as parasites in the galls of Cynipidae.)

O. luteolator (Grav.). Ithaca, May (Ashm-CU). A common parasite of *Rhodites rosae* (L.).

O. minutum (Ashm.). **LI**: Jamaica Plains, May (type-US), from Rhodites gall.

LEPTOPYGUS Foerster

L. politus (Ashm.). Stony I., Jl (Cush-US).

THERSILOCHUS Holmgren

T. conotracheli Rly. Oswego, May, Je (Cush-US); **LI** (Ashm-US). A parasite of the plum curculio.

T. provancheri (Ashm.). **LI** (Ashm).

HETEROCOLA Foerster

H. americana Brues. Oswego, Aug (Cush-US).

Tribe **PLECTISCINI**

MEGASTYLUS Schiødte

M. albocollaris (Cress.). Oswego, Aug (Ashm-US).

APERILEPTUS Foerster

A. clypeatus Cush. McLean, Aug 25, 1925, *SRobinson* (Cush-CU).

A. delicatus Cush. Bear Mt., Sep (Cush-Schott).

DIACRITUS Foerster

D. muliebris (Cress.). Cranberry L., Aug, *Htly* (Cush-NYS Col. For.); N. Fair Haven, Sep (Cush-CU); Ithaca, *Chitt* (Cush-US); McLean, Aug 7–Sep 16, *Sib, SRobinson* (Cush-CU).

Tribe **BANCHINI**

BANCHUS Fabricius

(The members of this genus are parasitic in lepidopterous pupae.)

B. borealis Cress. Speculator, Remsen, Karner, Je–Aug, *Yg* (NYS); **LI:** Flatbush, *Zab* (?Brues-AM).

B. canadensis Cress. Old Forge, Jl, *Yg* (NYS).

B. ferrugineus Prov. Bear Mt., Je (Cush-Schott).

B. flavovariegatus Prov. Saranac Inn, Je (NYS); **LI:** Huntington, Ap (Cush-Schott,US).

B. inermis Prov. Ithaca, Sep (Bdy-CU).

B. pallescens Prov. Poughkeepsie, May (NYS).

CERATOGASTRA Ashmead

C. ornata (Say). Nyack, *Zab* (AM); **SI**, Aug (Vier, Ashm-Ds, Schott); **LI:** (Cush, Gahan-US); Southampton, Aug, *Gabrielson* (Cush, Gahan-US).

Tribe **MESOCHORINI**

CIDAPHUS Foerster

C. paniscoides (Ashm.). "NY", *Pergande* (Cush-US).

ASTIPHROMMA Foerster

A. uniformis (Cress.). Ithaca, Sep (Ashm-CU).

MESOCHORUS Gravenhorst

(Most, if not all, of the species of this genus are secondary parasites attacking other Ichneumonidae and Braconidae.)

M. agilis Cress. Newport, May, *Yg* (NYS).

M. aprilinus Ashm. **LI:** Flatbush, Aug, *Zab* (AM). Ashmead records it as bred from Apanteles.

M. luteipes Cress. Manlius, Oct, *SmHH* (Ashm-CU); Nyack, Sep, Oct, *Zab* (Ashm-AM, US).

M. obliquus Cress. Albany, May (NYS).

M. provancheri D.T. (*politus* Prov.). Ithaca (Sling&Flet).

FAMILY TRIGONALIDAE

LYCOGASTER Shuckard

L. pullata hollensis (M. & B.). Ithaca, Jl 19, 1919, *And* (Bdy-CU). One of the rarest insects recorded from the State. This species has been recorded from a cocoon of *Telea polyphemus,* and is believed to be a parasite on *Eremotylus macrurus* contained therein (Bdy).

ORTHOGONALOS Schultz

O. pulchellus (Cr.). Ithaca, Jl 3, 1904, *RSWoglum*, Jl 21–23, numerous individuals, *Yuasa* (Bdy-CU); Taughannock, Jl 21, 1905, *GCCrampton* (Bdy-CU); Karner, Jl, 1902 (Bdy-NYS).

TAPINOGONALOS

[*T. costalis* (Cress.). Hewitt, N. J., near the NY border, Jl (DS).]

FAMILY AULACIDAE

(With the exception of species of Pammegischia, these are parasites of wood-boring coleopterous larvae.)

ODONTAULACUS Kieffer

O. abdominalis (Cress.). Keene Val., Jl (Bdy-NYS); Big Moose, Jl (Bdy-NYS); Black Br., Je 21 (*Bdy*-CU); Norton's Landing, Cayuga L., *SmHH* (Bdy-CU); Karner, Je (Bdy-NYS).

O. bilobatus (Prov.). L. Clear, Jl 9, 1903 (Bdy-NYS); Ithaca, Jl–Aug (Bdy-CU); Scarsdale, Mar 14–26, 1913 (Bdy-NYS); Albany, Aug 25, 1913 (Bdy-NYS); Broadalbin, Je 29, 1915 (Bdy-CU).

PRISTAULACUS Kieffer

(Subgenus PRISTAULACUS Kieffer)

P. flavicrurus (Bdy.). Keene Val., Jl 24 (Bdy-NYS).

P. fuscalatus (Bdy.). Rensselaer, Jl 26, 1901 (Bdy-NYS).

P. niger (Shuckard). L. Pleasant, Jl 20 (Bdy-NYS); Albany, Je 21, Sep (Bdy-NYS).

(Subgenus OLEISOPRISTER Bradley)

P. abbottii (Westw.). Ft. Montgomery, Je 9, *Schott* (Cush).

P. glabrescens Bdy. Albany, Je 5, 1909 (holotype-NYS).

P. stigmaterus (Cress.). Geneva (Bdy-CU); Norton's Landing, Cayuga L., Je 21, *SmHH* (Cress, Bdy-CU); West Pt., Je 17, *Ds* (Beq).

P. subfirmus (Vier.). **LI:** Bellport, *Nic* (Sf-BM).

P. taughanic Bdy. Taughannock Falls, Aug 3, 1925, *Guerlac* (holotype-CU).

PAMMEGISCHIA Provancher

(The species of this genus are parasites of the wood-boring larvae of the horntails of the family Xiphydriidae.)

P. burquei Prov. Essex Co, Jl (Bdy-NYS); McLean, Je 30, 1921 (Bdy-CU); Nassau, Jl (Bdy-NYS); **LI:** Yaphank, Je (Bdy-BM).

P. pallipes Cress. Saranac Inn (US), type of *xiphydriae* Ashm.; Caroline to Harford, Je 15, *MacG* (Bdy-CU).

FAMILY STEPHANIDAE

(Regarded as extremely rare insects.)

SCHLETTERERIUS Ashmead

S. cinctipes Cress. "NY" (Schletterer).

S. rufipes Say. **LI,** *Eng* (Sf-BM).

FAMILY GASTERUPTIONIDAE

(*Foenidae*)

The eastern species of this family have usually been identified as *Gasteruption incertum* or *G. tarsatorium,* according to whether they have short or long ovipositors. Kieffer has shown that, in fact, other species of Gasteruption, as well as of his genus Trichofoenus, are involved, and pending definite determination of the species to which each record should apply we are obliged to omit most records, despite the fact that specimens are numerous, attracted by the flowers of wild parsnip and other plants, in late summer. Numerous specimens from New York State were in the hands of L'Abbé Kieffer at the time of his death, and had he lived to determine these the records below would doubtless be much more extensive. The insects are parasites of bees.

GASTERUPTION Latreille

(*Foenus* Fabricius)

G. assectator (L.). According to Kieffer a holarctic species. He records it from NY.

G. tarsatorium (Say). Ithaca, Je 25 (Bdy-CU).

G. intricatum Kf. Ithaca, Jl 24–Aug 24 (Bdy-CU).

TRICHOFOENUS Kieffer

T. canadensis Kf. Ithaca, Je 13–17 (Bdy-CU); Spencer L., Je 30 (Bdy-CU).

T. micrurus Kf. New Russia, Aug 18 (*Bdy*-CU); Niagara Falls, Je 27, *Vier* (Bdy-CU); Crosby Landing on L. Keuka, Je 26 (Bdy-CU); Ithaca, Je 14–Jl 25 (Bdy-CU); Taughannock, Jl 4 (Bdy-CU). This seems to be the common form usually identified as *Gasteruption incertum.*

Superfamily PROCTOTRUPOIDEA or SERPHOIDEA

FAMILY ROPRONIIDAE

ROPRONIA Provancher

R. garmani Ashm. Ithaca, Jl 22, 1918, *Yuasa* (Bdy-CU).

R. ashmeadi Bdy. Ithaca, Jl 9, 1904 (MacG) (type-CU).

FAMILY HELORIDAE

HELORUS Latreille

H. paradoxus (Prov.). Ithaca, *Smith* (Bdy-CU), bred from Chrysopa; L. George, Aug 3, 1903 (Bdy-AM).

FAMILY VANHORNIIDAE

VANHORNIA Crawford

V. eucnemidarum Crawford. Ithaca (*Bdy*-CU). Two specimens found at Ithaca in different years are the only records of the occurrence of this anomalous family, except the type series, taken from cells of eucnemid larvae in Maryland and Virginia.

FAMILY DIAPRIIDAE [162]

(*Belytidae*)

Compiled by ROBERT M. FOUTS

SUBFAMILY BELYTINAE

BELYTA Nees

B. robustior Fouts. Proc. Ent. Soc. Wash., 1925, 27: 152. Ithaca, Jl, *Bdy* (type-CU).

B. rugifrons Fouts. McLean, Aug 19 (type-CU).

ACLISTA Foerster

A. excavata Fouts. McLean, Jl–Aug (type-CU).

A. obliterata Fouts. McLean, Aug 31 (type-CU).

A. palustra Fouts. McLean, Aug 31 (type-CU).

A. simulans Fouts. McLean, Jl 26 (type-CU).

XENOTOMA Foerster

X. antennalis Fouts. McLean, Aug 20 (type-CU).

X. curvicaudis Fouts. McLean, Aug 19 (type-CU).

X. palustra Fouts. McLean, Aug 17 (type-CU).

X. pilosa Fouts. McLean, Aug 31 (type-CU).

CINETUS Jurine

C. pleuralis Fouts. Proc. Ent. Soc. Wash., 1925, 27: 151. McLean Bogs (type).

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[162] Comparatively little material from New York State of this and the five succeeding families has been determined in collections. In the collections of Cornell University, Mr. Fouts has recognized unidentified or undescribed species in the following genera: Acerota (1 n. sp.), Aclista, Anectata (2 n. spp.), Aneurhynchus (1 n. sp.), Aparamesius, Ashmeadopria, Belyta (3 n. spp.), Cinetus (7 n. spp.), Cryptoserphus, Exallonyx, Galesus (2 n. spp.), Leptorhaptus (3 n. spp.), Oxylabis (1 n. sp.), Pantoclis (6 n. spp.), Paramesius, Phaenopria (1 n. sp.), Platygaster (1 n. sp.), Proctotrupes (1 n. sp.), Spilomicrus, Trichopria (1 n. sp.), and Xenotoma.

MIOTA Foerster

M. rufopleuralis Ashm. Can. Ent., 1897, **29**: 589. Ithaca, Jl (Fouts-CU).

SUBFAMILY DIAPRIINAE

PHAENOPRIA Ashmead

P. aptera Ashm. Ithaca, Nov 19, *Cy*; McLean, May 16, *Leon* (Fouts).

DIAPRIA Latreille

D. conica (Fab.). Syst. Ent., 1775, p. 343. Malloryville, Je 18–20, Mud Cr., *MacG&Bdy* (Fouts-CU); McLean, Jl 3 (Fouts-CU); Albany; **LI** (Ashm). Host: *Eristalis tenax* (L.).

GALESUS Haliday

G. viereckii Brues. Bul. Wisc. Nat. Hist. Soc., 1905, (2)**3**: 187. Ithaca, Jl 12, *Yuasa* (Bdy-CU).

IDIOTYPA Foerster

I. pallipes Fouts. Proc. Ent. Soc. Wash., 1925, **27**: 102. McLean, Je, *Cy* (holotype).

LOXOTROPA Foerster

L. flavipes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 415. **LI**, *Bird* (Crawf), hyperparasite bred from cocoons of *Papaipema maritima* Edw.

PARAMESIUS Westwood

P. pallidipes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 395. Ithaca, Aug 16, *Yuasa* (Bdy-CU).

APARAMESIUS Kieffer

A. nigriclavis Fouts. McLean, May 16, *Leon* (type-CU).

ANEURHYNCHUS

A. mellipes Ashm. Can. Ent., 1888, **20**: 52. McLean, Aug 31, 1925, *SRobinson* (Fouts-CU).

TRICHOPRIA Ashmead

T. agromyzae (Fitch). Second Rep. Ins. N. Y., 1856, p. 303. **LI**, type locality, from *Meoneura vagans* (Fall.).

SPILOMICRUS Westwood

S. kiefferi Fouts. Proc. Ent. Soc. Wash., 1925, **27**: 150. Saranac L., Aug 26, 1916 (types-CU).

FAMILY PROCTOTRUPIDAE or SERPHIDAE

Compiled by ROBERT M. FOUTS

PROCTOTRUPES Latreille

(*Serphus* Schrank)

P. clypeatus (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 339. Ithaca, type locality.

P. linellii (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 337. **LI**, type locality.

P. rufigaster (Prov.). Nat. Can., **12**: 263. Onteora Mt., 2500 ft., *How* (Crawf).

P. terminalis (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 337. Axton, Je, *M&H* (Ashm, Fouts); Ithaca, Je–Aug (Fouts-CU); Rhinebeck, Jl 27, *Cy* (Fouts-CU).

FAMILY CALLICERATIDAE

CALLICERAS Nees

C. melanocerus (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 129. Ithaca, bred from pine-cone willow-galls (Ashm).

FAMILY SCELIONIDAE

Compiled by ROBERT M. FOUTS

ACOLUS Foerster

A. zabriskiei Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 175. **LI**, type locality. A parasite of spiders' eggs.

ANTERIS Foerster

A. nigriceps Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 226. Manlius, Aug 19, *SmHH* (Ashm-CU).

BAEUS Haliday

B. americanus How. Ins. Life, 1890, **2**: 270. **LI**, type locality. A parasite of spiders' eggs.

GRYON Haliday

G. flavipes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 208. McLean Bogs, May, *Cy&Leon* (Fouts).

HOPLOGRYON Ashmead

(*Prosacantha* Nees)

H. brachypterus (Ashm.). Can. Ent., 1898, **30**: 50. McLean, May, Jl, *Cy&Leon* (Fouts); Cinnamon L., Je 5, *Cy* (Fouts).

H. coxalis Fouts. Proc. Ent. Soc. Wash., 1925, **27**: 103. Suffern, May, *Cy* (holotype).

H. flavipes (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 208. McLean, Jl, *Cy* (Fouts).

H. grandis Brues. Bul. Wisc. Nat. Hist. Soc., 1907, **5**: 102. **LI**, type locality.

H. linellii (Ashm.). Bul. U.S. Nat. Mus., 1893, **45**: 195. **LI**, type locality.

H. obscuripes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 204. Cinnamon L., Je 5, *Cy* (Fouts).

H. rufipes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 205. McLean, Jl, *Cy* (Fouts).

HOPLOTELEIA Ashmead

H. noveboracensis Brues. Bul. Wisc. Nat. Hist. Soc., 1908, **6**: 49. NYC, type locality.

MACROTELEIA Westwood

M. virginiensis Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 218. Manlius, Aug, *SmHH* (Ashm-CU).

OPISTHACANTHA Ashmead

O. mellipes Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 221. **LI**: Riverhead, Je 28, *Cy* (Fouts).

TELEAS Latreille

T. lineaticeps Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 199. Manlius, Aug 19, *SmHH* (Ashm-CU).

TELENOMUS Haliday

T. hemerocampae Wilcox. Psyche, 1920, **27**: 78. **LI**: Brooklyn, from the white-marked tussock caterpillar, *Hemerocampa leucostigma* S. & A.

T. fiskei Brues. Psyche, 1910, **17**: 106. "NY", type locality. Host: *Hemerocampa leucostigma* S. & A.

T. longicornis Ashm. Bul. N.Y. State Mus., 1901, **47**: 586. Adirondacks.

T. clisiocampae Rly. Bul. U.S. Nat. Mus., 1843, **45**: 160. Ithaca, Spring Val., White Plains, Suffern, Tallman, *CLLiu* (Mues), reared from eggs of the tent caterpillar *Malacosoma americana* F.

T. orgyiae Fitch. Eighth Rep. N.Y. State Ent., p. 197. "NY" (Fitch), from eggs of *Notolophus antiqua* L. subsp. *nova* Fitch.

T. podisi Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 158. Enfield Glen, Ap 22, *Cy&Seeley* (Fouts).

TIPHODYTES Bradley

T. gerriphagus Marchal. Ann. Soc. Ent. France, **69**: 171. Ithaca, Je 11 (*Cy&Mat*-CU), reared from the eggs of *Gerris remigis* Say.

TRISSOLCUS Ashmead

T. podisi Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 162. Ithaca, Jl 22 (Brues-CU), bred from pentatomid eggs.

T. thyantae Ashm. Bul. U.S. Nat. Mus., 1893, **45**: 163. Colonie (Gahan). Host: *Thyanta custator* (Fab.) (Pentatomidae).

FAMILY PLATYGASTERIDAE [163]

Compiled by ROBERT M. FOUTS

ACEROTA Foerster

A. leonardi Fouts. Proc. Ent. Soc. Wash., 1925, **27**: 147. McLean Bogs, May 16, *Leon* (type).

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[163] Revision of the North American wasps of the subfamily Platygasterinae. By Robert M. Fouts. Proc. U.S. Nat. Mus., 1924, **63**: 1–145.

ERITRISSOMERUS Ashmead

E. noveboracensis Brues. Bul. Wisc. Nat. Hist. Soc., 1910, **8**: 48. Albany, type locality. Bred from a cecidomyiid gall.

FIDIOBIA Ashmead

F. flavipes Ashm. (*Rosneta tritici* Brues). Journ. Cincinnati Soc. Nat. Hist., 1894, **17**: 171. Middleport, types of *Rosneta tritici* Brues; Westfield, parasite of grape root-worm, *Sling.*

INOSTEMMA Haliday

I. leguminicolae Fouts. Proc. Ent. Soc. Wash., 1923, **25**: 64. Ithaca, type locality; reared by Wehrle from the clover midge, *Dasyneura leguminicola* (Lint).

LEPTACIS Foerster

L. hopkinsi (Crawf. & Bdy.) (*Dolichotrypes hopkinsi*). Proc. Ent. Soc. Wash., 1911, **13**: 124. Ithaca, *Comstock* (types-CU, US), many females inserting slender part of abdomen into intercellular spaces of wood near the bark of a freshly cut oak stump along Fall Creek.

L. bradleyi Fouts. Proc. U.S. Nat. Mus., 1824, **63**: 132. Ithaca, *Comstock* (type-CU, US); collected under the same circumstances as, and in company with, *L. hopkinsi.*

PLATYGASTER Latreille

P. anormis Brues. Bull. Wisc. Nat. Hist. Soc., 1910, **8**: 49. Albany, type locality.

P. aphidis Ashm. Bull. U.S. Nat. Mus., 1893, **45**: 325. Richfield Sps. (type); reared from an aphis on *Chenopodium album.*

P. error Fitch. Sixth Rep. N.Y. State Ent., p. 76. Branchport, from the clover midge, *Dasyneura leguminicola* (Lint.), also a parasite of the wheat midge, *Thecodiplosis mosellana* Gahan.

P. pallida Fouts. Proc. Ent. Soc. Wash., 1925, **27**: 148. McLean Bogs, May 16, *Leon* (holotype).

P. herrickii Pck. Third Rep. U.S. Ent. Comm., p. 220. Hilton, Fancher, Knowlesville, Waterport, Sanborn, *Cy* (Myers&Hill).

P. hiemalis Fbs. Psyche, 1888, **5**: 39. Evans Mills, Theresa, *McConnell* (Hill); Albion, *McConnell*, Newfane, Lima, *Cy* (Hill); Stafford, Berne, *Cy* (Hill).

P. salicicola (Ashm.). Bull. U.S. Nat. Mus., 1893, **45**: 305. Brighton (Felt), bred from the European willow gall-midge, *Rhabdophaga salicis* Schrank (Cecidomyiidae).

P. leguminicolae Fouts. Proc. Ent. Soc. Wash., 1920, **22**: 69. Ithaca, *Wehrle* (Fouts), from the clover midge, *Dasyneura leguminicola* Lintner.

P. vernalis (Myers). Proc. U.S. Nat. Mus., 1917, **53**: 255. Generally distributed in central and western NY south of the Mohawk Val. and in the Hudson R. Val. north of Fishkill. The following definite records have been supplied by W. R. McConnell, P. R. Myers, C. C. Hill, and H. D. Smith, of the Hessian Fly Laboratory of the U.S. Bur. Ent., based largely on material supplied them by C. R. Crosby: Marion, Elbridge, Camillus, Borodino, Williamson, Sodus, Sodus Pt., Wolcott, Rose, Palmyra, Fruitland, Clyde, W. Walworth, Walworth, W. Henrietta, Spencerport, Scottsville, Rush, N. Greece, N. Cambric Center,

Mumford, Mendon, Macedon Center, Hilton, Hamlin, Fairport, Charlotte, Chili, Churchville, Brockport, Fancher, Albion, Kendall, Orleans, Holley, Knowlesville, Waterport, Pavilion, Medina, LeRoy, Indian Falls, Honeoye Falls, Griswold, Geneseo, Newfane, Alden, Lockport, Lima, Alexander, Batavia, Bergen, Corfu, Indian Falls, E. Aurora, Ashantee, Canawaugus, E. Avon, York, Silver Sps., Geneva, Manchester, Victor, Canandaigua, Flint, Cayuga, Auburn, Skaneateles, Skaneateles Falls, Waterloo, Ithaca, Lodi, Niobe, Covert, Blockville, Romulus, Waterloo, Berne, Brunswick, Wallkill, Highland, Rhinebeck, and Fishkill. Host: the Hessian fly, *Phytophaga destructor* Say.

P. rubi (Ashm.). Bull. U.S. Nat. Mus., 1893, **45**: 315. Ithaca, bred from a cecidomyiid gall on blackberry (Brues-CU).

P. semiglaber Gir. Proc. U.S. Nat. Mus., 1920, **58**: 177. Albany, type locality; from *Rhopalomyia hirtipes* O.S.

FAMILY **PELECINIDAE**

PELECINUS Latreille

P. polyturator Drury. New Russia, Aug 8 (*Bdy*-CU); Otto, Potsdam, Manlius (Bdy-CU); Oswego, Sep 7, *JGLindsey* (Lint-NYS); Hamburg; Ithaca, Sep, *Guerlac*; McLean, Aug 19–30 (Bdy-CU); Albany, Aug (NYS); Coeymans, *EBSm* (Lint-NYS); New Riverside (CU); L. George, *Zab* (AM); Hague, West Farms (AM); Huguenot, Tomkins Cove (AM); **LI:** Flatbush, Fishers I. (AM). Common, probably in all parts of the State (Bdy).

FAMILY **CYNIPIDAE**

Compiled by L. H. WELD

SUBFAMILY **IBALIINAE**

(Members of this subfamily are parasites on horntails.)

IBALIA Latreille

I. ensiger Nort. Oswego, Jl 22.

I. maculipennis Hald. Batavia; Norton's Landing, Cayuga L.; Ithaca; Albany, Je 4, *SCBishop* (Bdy-NYS); Poughkeepsie, Je 1 (Bdy-NYS); Port Chester, Sep 24 (Bdy-NYS); **LI**, Je.

SUBFAMILY **ANACHARITINAE**

(Species of this and the three following subfamilies—Aspicerinae, Figitinae, and Eucoilinae—are parasites of dipterous puparia.)

ANACHARIS Dalman

A. marginata Prov. Ellis; Slaterville.

XYALASPIS Hartig

X. flavipes Ashm. Manlius, Aug 19 (Weld-CU).

SUBFAMILY **ASPICERINAE**

CALLASPIDIA Dahlbom

C. provancheri Ashm. Oswego, Je; Rochester, Jl 7; Ithaca, Aug 7, Sep 13 (Weld); Caroline to Harford, Je 15; L. George, Aug 22.

SUBFAMILY **FIGITINAE**

FIGITES Latreille

F. floridanus Ashm. Norton's Landing, Cayuga L., *SmHH* (Weld); Ithaca, Je 26.

SUBFAMILY **EUCOILINAE**

COTHONASPIS Hartig

(Subgenus **COTHONASPIS** Hartig)

C. rapae (West.). Geneva; Medina; Carlton; **LI.** A parasite of the cabbage root-maggot.

PSILODORA Foerster

P. impatiens (Say). Oswego, Aug 17.

KLEIDOTOMA Westwood

K. avenae (Fitch). "NY" (type). From *Aphis avenae* Fab.
K. marginata (Gill.). Spencer L., Je 30.

EUCOILIDEA Ashmead

E. canadensis Ashm. Oswego, Jl 1; **LI.**

SUBFAMILY **CHARIPINAE**

(Species of this subfamily are secondary parasites of plant lice.)

CHARIPS Haliday

(Subgenus **CHARIPS** Haliday)

C. brassicae (Ashm.). Medina; Carlton; Ithaca; Groton. From cabbage aphis.

ALLOXYSTA Foerster

(Subgenus **ALLOXYSTA** Foerster)

A. tritici (Fitch). "NY" (type). Probably from grain aphis.

SUBFAMILY **CYNIPINAE**

(Members of this subfamily are producers of galls on plants or are inquilines in these galls.)

GALL-MAKERS

NEUROTERUS Hartig

N. batatus (Fitch). OAK POTATO GALL. Hemlock L.; Rochester (Felt); Ithaca; Albany; Easton Hills (Felt); **SI; LI:** Flatbush; Southold. Galls on white oak.

N. distortus Bass. "NY" (Bt). Galls on swamp white oak.

N. exiguus Bass. "NY" (Bt). Galls on post oak.

N. floccosus (Bass.). OAK FLAKE GALL. Nyack; NYC; **LI:** Manorville. Galls on white oak.

N. irregularis (O.S.). "NY" (Bt.). Galls on post oak.

N. majalis (Bass.). Ithaca; **LI:** Southold; E. Hampton. Galls on white oak.

N. minutus (Bass.). "NY" (Bt.). Galls on white oak.

N. niger Gill. Ithaca; NYC; **LI:** Glen Cove. Galls on white oak.

N. noxiosus (Bass.). NOXIOUS OAK GALL. Medina; Geneva; Albany; Spring Val.; Mt. Vernon; **SI; LI:** Greenport. Galls on swamp white oak.

N. pallidus Bass. "NY" (Bt). Galls on staminate flowers of swamp white oak.

N. pallipes Bass. "NY" (Bt.). Galls on white oak.

N. papillosus Bt. OAK BLISTER GALL. NYC (Bt). Galls on swamp white oak.

N. saltarius Weld. EASTERN JUMPING NEUROTERUS GALL. Medina. Galls on bur oak.

N. tectus Bass. "NY" (Bt). Galls on scrub chestnut oak.

N. umbilicatus Bass. Ithaca; Hudson Falls (Felt); Albany; Mt. Kisco (Felt); NYC; **LI:** Sea Cliff (Felt). Galls on swamp white oak.

N. verrucarum (O.S.). "NY" (Bt). Galls on post oak.

N. vesicula (Bass.). SOFT OAK-BUD GALL. Nyack. Galls on white, bur, and swamp white oak.

DIPLOLEPIS Geoffroy

(*Dryophanta* Foerster)

D. centricola (O.S.). West Farms; **LI:** Farmingdale. Galls on post oak.

D. cinereae (Ashm.) (*saccularius* Bass.). Medina; **LI:** E. Hampton. Galls on red and scarlet oak.

D. clarkei (Bass.). "NY" (Bt). Galls on white oak.

D. erinacei (Walsh). OAK HEDGEHOG GALL. Buffalo; Waterport; Penn Yan; Ithaca (CU); Syracuse; Albany; NYC; **SI; LI:** Southold. The early spring bud-scale galls of the sexual generation have been taken at Ithaca. Galls on white oak.

D. gemula (Bass.). BRITTLE BUD-GALL. NYC. Galls on white oak.

D. ignota (Bass.). "NY" (Bt). Galls on swamp white oak.

D. notha (O.S.). NYC; **LI:** E. Hampton. Galls on scarlet, red, and pin oak.

D. pallipes (Bass.). "NY" (Bt). Galls on white oak.

D. palustris (O.S.). SUCCULENT OAK GALL. Hudson Falls; Ithaca; Nyack; West Farms; NYC; **LI:** Cypress Hills; Southold; E. Hampton. Galls on red, scarlet, black, scrub black, pin, willow, and blackjack oak.

D. pedunculata (Bass.). **LI:** E. Hampton. Galls on scarlet oak.

D. polita (Bass.). POLISHED OAK GALL. **LI:** Southold. Galls on post oak.

DISHOLCASPIS Dalla Torre and Kieffer

D. globulus (Fitch). ROUND BULLET GALL. Syracuse; Indian Falls; Eden; Hemlock L.; Canandaigua; Ithaca; Nyack; West Farms; **SI; LI:** Flatbush; Manorville; Southold; E. Hampton; Orient. Galls on white, chestnut, and scrub chestnut oak.

D. globosa Weld. Ithaca; Bartow. Galls underground on white oak.

D mamma (Walsh). POINTED BULLET GALL. Ithaca; Karner; West Farms; **SI.** Galls on bur and swamp white oak.

DRYOCOSMUS Giraud

D. decidua (Bt.). DECIDUOUS OAK GALL. **LI:** Riverhead. Galls on red, black, and scrub black oak.

D. floridensis (Bt.) (*peltatus* Wells and Metcalf). ROSETTE GALL. **LI:** Flatbush. Galls on blackjack and pin oak.

D. imbricariae (Ashm.) (*fasciatus* Bass.). BANDED BULLET GALL. Bronxville; **SI; LI:** Riverhead, Flanders. Galls on scrub black and blackjack oak.

D. piperoides (Bass.). Medina; Canandaigua; Ithaca. Galls on red oak.

D. rileyi (Ashm.). **LI:** Riverhead. Galls on red oak.

TRIGONASPIS Hartig

T. radicola (Ashm.). FLESHY OAK FIG ROOT-GALL. NYC; **LI:** Flatbush. Galls on white oak.

BIORHIZA Westwood

B. rubina Gill. Syracuse; Medina. Galls on white oak.

XANTHOTERAS Ashmead

X. forticorne (Walsh). OAK FIG GALL. Ithaca; Karner; Albany; West Farms; Nyack; **SI; LI:** Flatbush; Riverhead; Southold. Galls on white oak.

XYSTOTERAS Ashmead

X. nigrum (Fitch). Albany. Galls on white oak.

X. poculum Weld. OAK SPANGLE GALL. Hemlock L.; Ithaca. Galls on white oak.

ZOPHEROTERAS Ashmead

Z. compressum (Gill.). Katonah; **LI.** Galls on scarlet oak.

Z. hubbardi (Ashm.) (*Parateras*). **LI:** Bellmore. Gall unknown.

ACRASPIS Mayr

A. hirta (Bass.). Ithaca; Storm King; West Pt.; High Bridge; NYC. Galls on chestnut oak.

A. macrocarpae Bass. JEWEL OAK GALL. St. Lawrence Co; Medina; **LI:** Manorville; Farmingdale. Galls on bur oak.

A. pezomachoides (O.S.). OAK PEA GALL. Syracuse; Albany; Nyack; West Farms; **LI:** Flatbush; Manorville; Riverhead; Southold. Galls on white oak.

A. prinoides (Bt.). SPINY OAK GALL. Oriskany Falls; **SI.** Galls on scrub chestnut oak.

A. villosa Gill. HAIRY OAK GALL. Medina; Seneca L.; Ithaca. Galls on bur oak.

PHILONIX Fitch

P. fulvicollis Fitch. "NY" (Fitch). Gall unknown.

P. nigra (Gill.). Ithaca; NYC; **LI:** Riverhead. Galls on white and bur oak.

P. nigricollis Fitch. "NY" (Fitch). Gall unknown.

CYNIPS Linnaeus

C. dimorphus Bt. Ithaca; **LI.** Galls on white and bur oak.

C. strobilana O.S. PINE-CONE OAK GALL. Ithaca; Albany; Mt. Vernon; Bronxville; NYC; **SI.** Galls on swamp white oak.

C. weldi Bt. Syracuse; Ithaca; **LI:** Riverhead. Galls on white oak.

ANDRICUS Hartig

A. chinquapin (Fitch) (*fusiformis* O.S., *capsula* Bass.). OAK CAPSULE GALL. Ithaca; NYC; **SI; LI:** Farmingdale; E. Hampton. Galls on scrub chestnut, swamp white, and white oak.

A. coronus Bt. NYC, Bronx Pk. Galls on pin oak.

A. excavatus Ashm. Hudson Falls. Galls on black oak.

A. flocci (Walsh). OAK WOOL GALL. Genoa; Canandaigua (Felt); Ithaca; Troy (Felt); NYC (Bt); **LI:** Cold Sp. Harb. (Felt); Riverhead. Galls on white oak.

A. osten sackenii (Bass.). Ithaca; **LI:** Farmingdale; E. Hampton. Galls on scarlet oak.

A. pattoni (Bass.). **SI; LI:** Pinelawn. Galls on post oak.

A. petiolicola (Bass.). OAK PETIOLE GALL. Medina; Watkins Glen; Ithaca; Albany; Hudson Falls; Storm King; West Farms; Scarsdale (Felt); **SI; LI:** Cold Sp. Harb. (Felt); Ravenswood; Farmingdale; Manorville; Southold; E. Hampton. Galls on swamp white, white, bur, chestnut, scrub chestnut, and post oak.

A. rugulosus Bt. NYC. Galls on red and black oak.

A. singularis (Bass.). SMALL OAK APPLE. Medina; Ithaca; Albany; Shushan; Katonah; **SI; LI:** Cold Sp. Harb. (Felt). Galls on red oak.

A. utricula (Bass.). Ithaca; **LI:** Orient. Galls on white and post oak.

CALLIRHYTIS Foerster

C. balanoides Weld. Ithaca. Gall on immature acorn of black oak.

C. bignelli (D.T.) (*punctata* Ashm., *montana* Bt.). Nyack. Gall unknown.

C. clavula (O.S.). OAK CLUB GALL. Syracuse; Indian Falls; Hemlock L.; Albany; White Plains; Hudson Falls; NYC; **SI; LI:** Farmingdale. Galls on white oak.

C. cornigera (O.S.). HORNED KNOT GALL. Ithaca; Nyack; West Farms; NYC; **SI**; **LI**: Southold; Gardiners I. Galls on red, pin, shingle, and scrub black oak.

C. elliptica Weld. Nyack. Root gall on white oak.

C. flavohirta (Bt.). Medina; Ithaca. Galls on swamp white and bur oak.

C. fructuosa Weld. Ithaca. Galls inside black-oak acorns.

C. futilis (O.S.). OAK WART GALL. Medina; Indian Falls; Ithaca; Hudson Falls; NYC; **LI**: Manorville; Farmingdale; Southold. The alternating agamic generation in the thick bark underground has been taken at Ithaca and Indian Falls. Galls on white oak.

C. gallaestriatae Weld. NYC. Galls on red oak.

C. gemmaria (Ashm.). Ithaca; **LI**: Flatbush; Pinelawn. Galls on red oak.

C. gemmiformis (Bt.). NYC: Woodlawn. Galls on white oak.

C. lanata (Gill.) (*Dryophanta*). Medina; Hemlock L.; **LI**: Riverhead. Galls on red, scarlet, black, and scrub black oak.

C. lustrans (Bt.) (*impositus* Bt.). NYC. Galls on post oak.

C. modesta (O.S.) (*papula* Bass.). Medina; NYC; **LI**: Riverhead. Galls on red, black, and scrub black oak.

C. operator (O.S.). WOOLLY FLOWER GALL. Ithaca; Schenectady; Albany; **SI**; **LI**: Massapequa; Riverhead; E. Hampton. Galls on red, scarlet, black, and scrub black oak. The acorn pip gall of the alternating agamic generation has been taken at Medina, Ithaca, and Riverhead.

C. phellos (O.S.) (*similis* Bass.). SCRUB-OAK CLUB GALL. **SI**; **LI**: Farmingdale; Riverhead; Flanders; E. Hampton. Galls on scrub black and willow oak.

C. pigra (Bass.). OAK MID-RIB GALL. Ithaca; NYC; Galls on black and scarlet oak.

C. pulchra Bass. SMOOTH FLOWER GALL. Poughkeepsie; **LI**: Flatbush. Galls on red and black oak.

C. punctata (Bass.). OAK KNOT GALL. Watkins; Loudonville; W. Albany; Mt. Vernon; **SI**; **LI**: Cold Sp. Harb.; Southold. Galls on red, scarlet, black, scrub black, and blackjack oak.

C. rugosa (Ashm.) (*Andricus*). **LI**: E. Hampton. Galls on red oak.

C. scitula (Bass.) (*Andricus*). Ithaca; New Rochelle; Nyack; **LI**: Flatbush. Galls on red and black oak.

C. seminator (Harr.). WOOL SOWER. Rochester; Indian Falls; Ithaca; Glens Falls; Hudson Falls; Cheviot; W. Nyack; NYC; **LI**: Farmingdale; Southold; E. Hampton. Galls on white oak.

C. seminosa Bass. Peekskill; Nyack; NYC; **SI**. Galls on red oak.

C. tumifica (O.S.). MID-RIB TUMOR GALL. Ithaca; Dobbs Ferry; NYC; **LI**: Farmingdale. Galls on red and black oak.

AMPHIBOLIPS Reinhard

A. coelebs (O.S.). SMALLER SPINDLE GALL. **SI**; **LI**: Yaphank; Riverhead; E. Hampton. Galls on red and scarlet oak.

A. cookii Gill. Medina; Atwater; Ithaca; West Point; Katonah. Galls on red and black oak.

A. confluentus (Harr.) (*spongifica* O.S.). SPONGY OAK APPLE. Waterport; Ithaca; New Baltimore; Hudson Falls; West Farms; White Plains; NYC; **SI; LI:** New Lots; Flatbush; Farmingdale; Cold Sp. Harb. (Felt); Manorville; Riverhead; Southold; E. Hampton. Galls on red and black oak.

A. ilicifoliae (Bass.). LARGER OAK SPINDLE GALL. **SI; LI:** Cold Sp. Harb.; Riverhead; Flanders; Southold; E. Hampton. Galls on scrub black oak.

A. inanis (O.S.). LARGER EMPTY OAK APPLE. Medina; Ithaca; Hudson Falls; **SI.** Galls on red oak.

A. nubilipennis (Harr.). TRANSLUCENT OAK GALL. Indian Falls; Ithaca; **LI:** Farmingdale; E. Hampton. Galls on red, black, and scarlet oak.

A. prunus (Walsh). ACORN PLUM GALL. Lowville; Ithaca; **SI; LI:** Moriches. Galls on red oak.

A. tinctoriae Ashm. KEELED OAK APPLE. Katonah; **LI:** Port Jefferson. Galls on scarlet and black oak.

DIASTROPHUS Hartig

D. bassetti Bt. Bronxville; West Farms; **SI.** Galls on roots of dewberry.

D. cuscutaeformis O.S. BLACKBERRY SEED GALL. Newport; Salamanca; Ithaca; West Farms; **SI; LI:** Flatbush; Southold. Galls on stem of blackberry.

D. fragariae Bt. CYLINDRICAL STRAWBERRY GALL. Ithaca; NYC. Galls on petiole of wild strawberry.

D. nebulosus (O.S.). GOUTY BLACKBERRY GALL. Waterford; Albany; Poughkeepsie; White Plains; Mt. Vernon; Nyack; West Farms; **SI:** Ft. Wadsworth, on a cultivated climbing blackberry (Ds); **LI:** Farmingdale; Southold. Galls on wild blackberry.

D. niger Bass. Ithaca; **SI; LI:** Southold. Galls on Potentilla.

D. radicum Bass. BLACKBERRY ROOT GALL. NYC (Bt); **LI:** Amagansett (Ds); Pinelawn. Galls on wild blackberry.

D. turgidus Bass. Ithaca. Galls on stems of wild raspberry.

AYLAX Hartig

A. glechomae (L.). GROUND IVY GALL. Medina; Ithaca; Albany (Felt); **LI.** Galls on *Nepeta hederacea.* Introduced from Europe.

A. taraxaci (Ashm.). Medina; Hudson Falls. Galls on dandelion. Introduced from Europe.

AULACIDEA Ashmead

A. harringtoni (Ashm.) (*bicolor* Gill., *mulgediicola* Ashm., *cavicola* Ashm.). Katonah. Galls on Lactuca.

A. nabali (Brodie). Nyack. Galls on Prenanthes.

A. podagrae (Bass.). Ithaca; **SI.** Galls on Lactuca.

A. tumida (Bass.) (*sonchicola* Ashm.). LETTUCE TUMOR GALL. Ithaca; Albany; E. Schodack; Nassau; Waldorf; Nyack; West Farms; NYC; **LI:** Southold; Orient (Felt). Galls on Lactuca.

GONASPIS Ashmead

G. potentillae (Bass.). CINQUEFOIL AXIL GALL. Norton's Landing, Cayuga L. (Weld-CU); Ithaca; E. Jewett; West Farms; NYC; **SI; LI:** Astoria; Southold; Gardiners I. Galls on Potentilla.

RHODITES Hartig

(Members of this genus produce galls on roses.)

R. bicolor (Harr.). SPINY ROSE GALL. Medina; Canandaigua; Ithaca; Albany; Shushan; Nyack; Hudson Falls; West Farms; NYC, Central Pk., Inwood; **SI**; **LI**: Hempstead Plains; Bellport; Southold; E. Hampton.

R. dichlocerus (Harr.). LONG ROSE GALL. Medina; Canandaigua; Hudson Falls; Nassau; Niverville; Nyack; West Farms; **SI**; **LI**: Flatbush; Wyandanch; Orient.

R. gracilis Ashm. REGAL ROSE GALL. Canandaigua; Ithaca.

R. ignotus O.S. MEALY ROSE GALL. Rochester; Albany; West Farms; NYC, Inwood (Ds); **SI**; **LI**: Richmond Hill; Southold; Shelter I.; Wading R. (Ds); Orient.

R. nebulosus Bass. NYC; **SI**.

R. radicum O.S. ROSE ROOT GALL. Albany; Nyack; NYC; **SI**. On *Rosa carolina*.

R. rosae (L.). MOSSY ROSE GALL, or BEDEGUAR. Ogdensburg; Medina; Albion; Rochester; Honeoye Falls; Batavia; Ithaca; Taughannock; L. George (Felt); E. Jewett (Ds); Athens; West Farms; Nyack; NYC; **SI**. On Sweetbrier. Introduced from Europe.

R. rosaefolii Ckll. ROSE LENTIL GALL. Medina; Canandaigua; NYC.

R. semipiceus (Harr.) (*fulgens* Gill.). Ithaca; Bronxville; NYC; **SI**; **LI**: Flatbush.

R. vernus (O.S.). KNOTTY ROSE GALL. Hudson Falls; **SI**; **LI**: Southold.

GUESTS, OR INQUILINES

PERICLISTUS Foerster

(Members of this genus have been reared from galls on roses.)

P. piratus (O.S.). Nyack; **SI**.

P. silvestris (O.S.). NYC, Bronx Pk.

SYNERGUS Hartig

(Members of this genus have been reared from galls on oak.)

S. campanula O.S. Buffalo; Nyack.

S. dimorphus O.S. **SI**.

S. erinacei Gill. Buffalo; Ithaca, Feb, Ap 3, Jl 1–Aug 8 (Weld).

S. lana (Fitch). "NY" (Fitch).

S. lignicola (O.S.). Nyack.

S. oneratus (Harr.). Ithaca.

CEROPTRES Hartig

(Members of this genus have been reared from galls on oak.)

C. arbos (Fitch). "NY" (Fitch). Bred from gall of *Callirhytis clavula* (O.S.).

C. ficus (Fitch). Axton, Je; **SI**. Bred from gall of *Xanthoteras forticorne* (Walsh).

C. petiolicola (O.S.). Nyack; **SI**. Bred from gall of *Andricus petiolicola* (Bass.).

C. pisum (Fitch). "NY" (Fitch). Bred from gall of *Acraspis pezomachoides* (O.S.).

C. tuber (Fitcn). Nyack. Bred from gall of *Callirhytis clavula* (O.S.).

Superfamily CHALCIDOIDEA

Compiled by A. B. GAHAN, C. R. CROSBY, and M. D. LEONARD

FAMILY CALLIMOMIDAE

(*Torymidae*)

CALLIMOME Spinola

(*Torymus* Dalman)

C. aea (Wlk.). "NY" (Wlk).

DITROPINOTUS Crawford

D. aureoviridis Crawf. Waterloo (PhillipsWJ); Victor, Clifton (CU). Carlton (Crawf-CU); Penn Yan (PhillipsWJ); Middletown (Cy). Bred from larvae in wheat.

ERIDONTOMERUS Crawford

E. isosomatis (Rly.) (*primus* Crawf.). Geneva (PhillipsWJ); Victor, Ithaca, (Cy-CU); Elmira (Crawf-CU); Albany (Cy-CU). Bred from larvae in timothy.

MEGASTIGMUS Dalman

M. aculeatus (Swederus). Ithaca (Cy-CU), reared from rose seeds.

M. brevicaudis Ratzeburg. Oswego, Weedsport (Cy); Jamesville, Cy-CU); Wayland (Cy); Ithaca (Cy-CU). All reared from seeds of mountain ash.

M. laricis Marcovitch. Ithaca (types), reared from seeds of larch.

M. nigrovariegatus Ashm. Wellsville, Ithaca, White Church, Stuyvesant Falls (Cy-CU), reared from rose seeds.

MONODONTOMERUS Westwood

M. dentipes (Boheman). **LI:** Farmingdale, Jl, reared from cocoons of *Lophyrus* sp. on pine (Gahan).

ORMYRUS Westwood

O. ventricosus Ashm. Watkins, Ithaca (CU). Bred from galls of *Diastrophus nebulosus* O.S. and *Diplolepis erinacei* (Walsh).

SYNTOMASPIS Foerster

S. druparum (Boheman). APPLE SEED CHALCIS. Clinton Co (Cy); Cranberry Cr., Hornby, Geneva, Monterey (Cy); Rochester, Penn Yan, Ithaca (Cy-CU); Kingston (Cy); Red Hook and Poughkeepsie (CU Econ). Lives only in apple seeds.

S. racemariae Ashm. **SI,** *Schott* (Gahan).

S. thalassinus Cy. Cranberry Cr., Lowville, Remsen, Victor, Byron, Bluff Pt., Penn Yan, Elmira (Cy); Taughannock Falls (Cy-CU); Ithaca (Cy); Wilseyville (Cy-CU); McLean, Cortland, Amsterdam, Kingston (Cy). From timothy and orchard grass.

WEBSTERELLUS Ashmead

W. harrisi (Fitch). "NY" (Fitch).

FAMILY PERILAMPIDAE

PERILAMPUS Latreille

P. subcarinatus Crawf. Norton's Landing, Cayuga L., *SmHH* (CU).

FAMILY CHALCIDIDAE

BRACHYMERIA Westwood

B. compsilurae (Cwfd.). **LI:** Pinelawn, Aug 24, *Schott* (Gahan).

B. ovata (Say). Axton, *M&H* (Ashm-CU); Ithaca (Ashm-CU), from *Vanessa antiopa.*

DIPLODONTIA Ashmead

D. secunda Gir. **LI** (Gir).

LEUCOSPIS Fabricius

L. affinis Say. Crosby Landing, L. Keuka, Je, *Cy*, Taughannock (C. Weld-CU); common at Ithaca (Bdy); McLean, Sep 7, 1924, *Sib* (Bdy-CU); Potsdam, Je (C. Weld-CU); **LI:** Central Pk., Je (Schott).

PHASGONOPHORA Westwood

P. sulcata Westw. Syracuse (B&S), from dead hickory; Crittenden (B&S), from larch; Ithaca (CU), from *Agrilus axius* Gory. A well-known parasite of flat-head borers.

SPILOCHALCIS Ashmead

S. mariae (Rly.). **SI** (Ds); **LI:** Brooklyn. Parasite of *Samia cecropia* Dr. and the bag-worm, *Thyridopteryx ephemeraeformis* Steph.

S. albifrons (Walsh). Oswego; Medina.

TRIGONURA Sichel

T. hicoriae Roh. Syracuse, *B&L* (type-US). Bred from hickory, and presumably from *Chrysobothris femorata* (Oliv.) and *C. sexsignata* (Say).

FAMILY EURYTOMIDAE

BRUCHOPHAGUS Ashmead

B. funebris (How.). CLOVER SEED CHALCID. Probably rather generally distributed throughout the State. Ithaca, Harford (Cy-CU).

DECATOMA Spinola

D. amsterdamensis Gir. Geneva, Penn Yan (PhillipsWJ), reared from Harmolita material.

D. flava Ashm. Ithaca (Cy-CU), from galls of *Diplolepis erinacei* (Walsh).

D. nubilistigma Walsh. Ithaca, Jl (Cy-CU).

D. querci-lanae-dorsalis (Fitch). Ithaca, Jl–Aug (Cy-CU). Specimens in CU bred from galls of *Diplolepis erinacei* (Walsh) and *Andricus petiolicola* (Bass.).

D. varians Walsh. Ithaca (Cy-CU), from galls of *Diplolepis erinacei* (Walsh).

EURYTOMA Illiger

E. auriceps Walsh. Ithaca (Cy-CU). Bred from galls of *Diplolepis erinacei* (Walsh).

E. bolteri Rly. Ithaca, Mar, *WAStocking,Jr* (Ashm-CU), bred from gall on goldenrod.

E. bolteri var. **parva** W. J. Phillips. Waterloo (Gir).

E. gigantea Walsh. Ithaca, Mar 11, 1898, *WAStocking,Jr* (Ashm-CU), bred from gall on goldenrod.

E. juniperinus Marcovitch. Ithaca (types), reared from juniper berries.

E. lanulae Fitch. "NY" (Fitch).

E. orchidearum (Westw.) (*Isosoma*). THE ORCHID FLY. Occasionally infesting greenhouse orchids. Rochester; West Nyack (CU); **LI:** College Pt. (Leon).

E. pater Gir. Penn Yan, Auburn, Waterloo (Gir).

E. querci-globuli (Fitch). "NY" (Fitch).

E. querci-pisi (Fitch). "NY" (Fitch).

E. rhois Cy. Ithaca (types-CU), reared from seeds of sumac.

E. studiosa Say. Ithaca (Cy-CU). Bred from galls of *Diplolepis erinacei* (Walsh).

EURYTOMOCHARIS Ashmead

E. triodiae How. Kingston (Cy).

EVOXYSOMA Ashmead

E. vitis (Saunders). Ithaca, *Cy* (How-CU), reared from grape seeds.

HARMOLITA Motschulsky [164]

(The species of this genus are all phytophagous, either occupying the center of the stem, or causing warty or gall-like swellings on the stem, of definite species of grasses.)

H. agropyrophila P. & E. Lowville, Geneva, Bluff Pt., Albany, Amsterdam (PhillipsWJ-CU). Lives only in species of quack grass, Agropyron. Lives in the center of the stem.

H. albomaculata (Ashm). Richland (Cy); Carthage (PhillipsWJ-CU); Lowville (Cy); Cranberry Cr. (PhillipsWJ-CU); Remsen; Victor; Bluff Pt.; Penn Yan (Cy); Elmira (PhillipsWJ-CU); Ithaca (Cy); Cortland (PhillipsWJ-CU); Oneonta (PhillipsWJ-CU); Albany, Kingston (Cy). Lives only in timothy, and inhabits the center of the stem. Probably occurs wherever timothy is grown.

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[164] A revision of the chalcid-flies of the genus Harmolita of America, north of Mexico. By W. J. Phillips and W. T. Emery. Proc. U.S. Nat. Mus., 1919, **55**: 433–471.

H. atlantica P. & E. Auburn (Cy-CU); Weedsport; Waterloo (PhillipsWJ); Geneva (Phillips WJ-CU); Canastota; Sea Breeze; Byron (Cy); Bluff Pt. (Phillips WJ-CU); Penn Yan (type-OS); Taughannock Falls; Ithaca (Cy); Amsterdam (PhillipsWJ-CU). Breeds only in quack grass, Agropyron, making inconspicuous galls, or occasionally galls in the sheath that surrounds the head. Males are rare.

H. dactylicola P. & E. Penn Yan, Geneseo, Waterloo, Geneva (P&E); Ithaca and Hancock (Cy). Breeds only in orchard grass, and inhabits the center of the stem. Males normally occur.

H. elymi (French). Sea Breeze, Middleport, Wellsville, Ithaca, Avoca, Port Jervis, Tuxedo Pk. (Cy). Lives only in spurs of Elymus, probably wherever it grows. Occupies the center of the stem.

H. elymicola P. & E. Cranberry Cr., Ithaca, Weedsport, Taughannock Falls, Tuxedo Pk. (Cy). Breeds only in species of Elymus, making very conspicuous galls at the second or third internode from the base of the plant. Males regularly occur.

H. festucae P. & E. Watertown, Geneseo, Syracuse, Geneva (PhillipsWJ). Breeds only in Festuca, making galls in the second to fourth internode from the base of the plants. Males rarely occur.

H. grandis (Rly.) form **minuta** (Rly.). WHEAT STRAW WORM. Victor (Cy). Lives only in wheat and is usually found wherever wheat is grown. Inhabits the center of the stem.

H. hordei (Harr.). BARLEY JOINT WORM. Watertown; Little Falls (PhillipsWJ); Syracuse (PhillipsWJ); Auburn (P&E). Breeds only in barley, making galls above the second to fourth nodes. Males rarely occur.

H. maculata (How.). Watertown, Little Falls, Syracuse, Geneva, Penn Yan, Ithaca (PhillipsWJ). Breeds only in cheat and other species of Bromus, inhabiting the center of the stem. Males regularly occur.

H. phalaridis P. & E. Ithaca, Hornby (Cy).

H. tritici (Fitch). WHEAT JOINT WORM. Axton, Je *M&H* (Ashm-CU); Evans Mills; Theresa; Vernon; Clifton; Carlton; Albion; Barre Center; Kent; Pt. Breeze; Wilson; Victor; Middleport; Byron; Elba; E. Bethany; Pavilion; Geneseo; Avon; Perry; Perry Center; Cuylerville; Canandaigua; Second Milo; Alpine; Sheridan; Bradford; Lodi; Ovid; Romulus; Ithaca; Newfield; Cayuta; Niverville; LaGrange (Cy-CU); **LI**: Miller's Place (Cy). Lives only in wheat; makes conspicuous galls, usually about the second or third internode from the base of the stem, though they may occur at every internode.

H. vaginicola (Doane). WHEAT-SHEATH GALL JOINT WORM. Evans Mills; Theresa; Vernon; Clifton; Carlton; Albion; Barre Center; Kent; Pt. Breeze; Wilson; Johnson Cr.; Victor; Middleport; Byron; Elba; E. Bethany; Pavilion; Geneseo; Avon; Perry; Perry Center; Cuylerville; Canandaigua (Cy); Crosby (PhillipsWJ-CU); Second Milo; Alpine; Sheridan; Bradford; Lodi; Ovid; Romulus; Newfield; Cayuta (Cy-CU); Ithaca (PhillipsWJ-CU); La Grange; Niverville (Cy); **LI**: Miller's Place (Cy). Breeds only in wheat, forming a conspicuous gall in the sheath surrounding the head of wheat. The head rarely grows out of the sheath or develops grain. Males never have been found.

PRODECATOMA Ashmead

P. phytophaga Cy. Taughannock Falls (Cy), reared from seeds of Virginia creeper.

FAMILY ENCYRTIDAE

ANABROLEPIS Timberlake

A. zetterstedtii (Westw.). Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.).

COECIDENCYRTUS Ashmead

C. ochraceipes Gahan. Ithaca, in greenhouse, *Griswold* (Gahan-US), from *Diaspis boisduvalii* Sign. on *Cattleya* sp.

APHYCUS Mayr

A. rileyi Timberlake. Ithaca (Sling), on *Lecanium corni* Bouché.

ATROPATES Howard

A. collinsi How. **LI:** Brooklyn, Roslyn (Collins), on *Pulvinaria innumerabilis* Rath.

BOTHRIOTHORAX Ratzeburg

B. novaeboracensis How. Richfield Sps., *Pergande* (How); McLean Bogs, Je, *Leon* (Gahan).

CHEILONEURINUS Mercet

C. microphagus (Mayr.). Ithaca, *Griswold* (Mues-CU), from *Lepidosaphes ulmi* (L.).

ENCYRTUS Latreille

E. marylandicus var. **alpinus** Gir. McLean, Aug 1 (Gahan-CU).

APHIDENCYRTUS Ashmead

A. inquisitor (How.). Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium, and *Trialeurodes vaporariorum* (Westw.) on squash. A hyperparasite.

COPIDOSOMA Ratzeburg

C. gelechiae How. Ithaca (Leiby). Host: *Gelechia gallaesolidaginis* Rly.

C. truncatellum (Dalm.). Rye, Aug, oviposit in egg of *Autographa* sp., emerge from larva. 1732 adults have been reared from one host larva and presumably from one parasite egg (Bird).

OOENCYRTUS Ashmead

O. clisiocampae (Ashm.). Ithaca; Spring Val.; Suffern; Tallman; White Plains, *CLLiu* (Mues-CU); reared from egg of apple-tree tent-caterpillar.

PSEUDENCYRTUS Ashmead

P. cecidomyiae (How.). Ithaca (Ashm).

PSYLLEDONTUS Crawford

P. insidiosus Crawf. Geneva (Parrott), from pear psylla.

ZARHOPALUS Ashmead

Z. sheldoni Ashm. L. Placid, *Sheldon* (Ashm).

FAMILY SIGNIPHORIDAE

SIGNIPHORA Ashmead

S. coquilletti Ashm. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Diaspis boisduvalii* Sign. on orchid.

FAMILY EUPELMIDAE

ANASTATUS Motschulsky

A. pearsalli Ashm. **LI:** Brooklyn, bred by Pearsall as an egg parasite of *Smerinthus astylus* Dru.

EUPELMUS Dalman

E. allynii (French). Camillus; Ira (D. T. Ries); Waterloo (PhillipsWJ); Clifton (PhillipsWJ-CU); Victor; Brockport; Bergen (DTRies); Byron (PhillipsWJ-CU); Albion; Middleport; Wyoming; Mt. Morris; Penn Yan (PhillipsWJ); Newfield (DTRies); Ithaca (PhillipsWJ-CU); Owasco (DTRies). Reared from *Cephus pygmaeus* by D. T. Ries; and from larvae in orchard grass and timothy by Cy.

METAPELMA Westwood

M. spectabilis Westw. Syracuse (B&S); Batavia, *Kngt* (Cy-CU); Ithaca (Cy-CU); Ilion; Albany (Cy).

FAMILY PTEROMALIDAE

ASAPHES Walker

A. americana Gir. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium, and from *Myzus persicae* Sulz. on *Chrysanthemum frutescens.*

A. rufipes Brues. Ithaca (Herrick and Hungate), on cabbage aphis.

CYRTOGASTER Walker

C. liqueata Ashm. Durlandville (FrostSW), from *Agromyza parvicornis* Loew.

DIBRACHYS Foerster

D. boucheanus (Ratz.). Ithaca, *CLLiu* (Mues-CU), from cocoons of *Apanteles clisiocampae* Ashm.; Glens Falls, Jl (Felt).

EUPTEROMALUS Kourdjumoff

E. viridescens (Walsh). Rye (Bird), from Microplitis cocoons.

EUTELUS Walker

E. onerati (Fitch). "NY" (Fitch).

HABROCYTUS Thomson

H. dux Gir. Ithaca, *CLLiu* (Mues-CU), from *Hyposoter fugitivus* (Say).

H. piercei Crawf. Ithaca (Mues), from *Anthonomus nebulosus* Lec. (Curculionidae).

HOMOPORUS Thomson

H. chalcidiphagus (W. & R.). Penn Yan (PhillipsWJ); Weedsport, *Cy* (PhillipsWJ-CU), Victor (Cy-CU), from larvae in wheat.

HYPOPTEROMALUS Ashmead

H. tabacum (Fitch). **LI:** Brooklyn, *Schott* (Gahan).

LARIOPHAGUS Crawford

L. distinguendus (Foerst.). **LI:** Brooklyn, on bags of grain, *Schott* (Gahan).

MERISUS Walker

M. destructor (Say). Ithaca (CU).

M. febriculosus Gir. Cranberry Cr.; Remsen; Geneva; Victor; Taughannock Falls; Ithaca (Cy-CU); Oneonta; Amsterdam; Albany, from timothy and Muhlenbergia.

MORMONIELLA Ashmead

M. brevicornis Ashm. Ithaca (Cy), from *Protocalliphora avium* Shannon.

PACHYNEURON Walker

P. altiscuta How. Ithaca.

P. siphonophorae (Ashm.) (*micans* How.). Ithaca (Herrick & Hungate), on cabbage aphis.

PSYCHOPHAGUS Mayr

P. omnivorus (Wlk.). Ithaca, *CLLiu* (Mues-CU), reared from pupae of apple-tree tent-caterpillar.

PTEROMALUS Swederus

P. puparum (L.). Esperance; Schenectady.

P. vanessae How. Waterville (Gahan-CU), from pupae of *Polygonia interrogationis* Fab.; ?Ithaca (CU), from pupae of *Aglais antiopa* L.

RHAPHITELUS Walker

R. maculatus Wlk. Ithaca (Cy).

FAMILY APHELINIDAE

ABLERUS Howard

A. clisiocampae (Ashm.). Tallman; Spring Val.; Suffern, *CLLiu* (Mues-CU), reared from eggs of apple-tree tent-caterpillar.

APHELINUS Dalman

A. diaspidis How. Several counties (Hodgkiss & Parrott). Host: San José scale.

A. fuscipennis How. Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.). Several counties (Hodgkiss & Parrott), from San José scale.

A. jucundus Gahan. Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Macrosiphum cornelli* Patch on geranium.

A. mali (Hald.). Ithaca (Lundie), on *Eriosoma lanigera.*

A. mytilaspidis LeB. Rochester (CU), from *Diaspis coerulea*; Ithaca, *Griswold* (Mues-CU), on *Lepidosaphes ulmi* (L.).

A. semiflavus (How.). Ithaca, in greenhouse, *Griswold* (Gahan-CU, US), from *Francoa rosarum* (Kalt.), an aphid on rose.

ENCARSIA Foerster

E. formosa Gahan. Ithaca, greenhouse, *Griswold* (Gahan-CU, US), from *Trialeurodes vaporariorum* (Westw.) on squash and Solanum.

E. pergandiella How. Ithaca, greenhouse, *Griswold* (Gahan-CU, US), from *Trialeurodes vaporariorum* (Westw.) on squash.

ASPIDIOTIPHAGUS Howard

A. citrinus (Crawf.). Ithaca, *Griswold* (Gahan-CU), on *Lepidosaphes ulmi* (L.).

CENTRODORA Foerster

C. speciosissimus (Gir.). Brockport; Lyons. Reared from Hessian fly, *Cy* (Myers).

COCCOPHAGUS Westwood

C. fletcheri How. Ithaca, *CLLiu* (Gahan-CU).

C. gossypariae Gahan. Ithaca, May, July, *Griswold* (Gahan-CU, US), from *Gossyparia spuria* (Modeer) on American elm.

C. lecanii (Fitch). Ithaca (How); **LI:** Flatbush, Roslyn (How); parasite on scale insects.

PERISSOPTERUS Howard

P. pulchellus (How.). Several counties (Hodgkiss & Parrott). Host: San José scale.

PROSPALTELLA Howard

P. aurantii (How.). Ithaca (How), parasitic on scale insects.

FAMILY EULOPHIDAE

APTEROLOPHUS Gahan

A. pulchricornis Gahan. Leeds (WMMann).

CHRYSOCHARIS Foerster

C. parksi Crawf. Durlandville, from *Agromyza taxana* Mel., Pine I., from *Agromyza pusilla* Meig., and Tarrytown, from *Phytomyza obscurella* Fall. (FrostSW).

CHRYSOCHAROMYIA Girault

C. elegantissima Gir. Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

CIRROSPILUS Westwood

C. flavicinctus Rly. Western NY (Lint), on *Bucculatrix pomifoliella* Clem.

C. ovisugosus Cy. & Mat. Ithaca (types-CU), as an egg parasite of the four-lined leaf-bug, *Poecilocapsus lineatus* (Fab.).

CLOSTEROCERUS Westwood

C. tricinctus (Ashm.). Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

COMEDO Schrank

C. orgyiae (Fitch.). THE GRAVE-STONE CHALCID. Ringwood, *Ndm* (Cy&Leon-CU); McLean, Aug 19 (Gahan-CU).

DEROSTENUS Westwood

D. salutaris Cy. Rochester (Cy), from *Nepticula slingerlandella* Kf.

DIAULINUS Schulz

D. begini (Ashm.). Pine I. (FrostSW), from *Agromyza pusilla* Meig.

D. pulchripes Crawf. Pine I. (FrostSW), from *Agromyza posticata* Meig.

D. websteri Crawf. Durlandville (FrostSW), from *Agromyza parvicornis* Loew; Tarrytown (FrostSW), from *Phytomyza obscurella* Fall.

DIMMOCKIA Ashmead

D. incongrua (Ashm.). Ithaca, *CLLiu* (Mues-CU), from cocoons of *Apanteles clisiocampae* Ashm., also from *Psychophagus omnivorus* (Wlk) and *Tachina mella* Wlk.(?).

ELACHERTUS Spinola

E. benefactor Crawf. Karner (Crawf), from *Rhyacionia comstockiana* Fern.

PLEUROTROPIS Foerster

P. benefica Gahan. Honeoye Falls; Stafford; LeRoy; Bethany; Caledonia; Batavia; Canandaigua; Holcomb; Moravia; Newfield (DTRies); reared from *Cephus pygmaeus*.

SECODELLA Girault

S. argyresthiae Crawf. Ithaca, from *Argyresthia alternatella* Zell. (Yponomeutidae).

SYMPIESIS Foerster

S. felti Crawf. Hudson Falls (Felt), reared from *Agromyza melampyga* Loew; **LI:** Westbury, Ap (Felt), from *Phytomyza ilicis* Curt.

S. maculipes Crawf. Geneva (BBFulton), from *Lithocolletes* sp.

TETRASTICHUS Haliday

T. agrili Crawf. Geneva, from *Agrilus sinuatus* (Oliv.).

T. asparagi Crawf. **LI:** Riverhead (Russell & Johnson).

T. juniperi (Crawf.). Ithaca (Marcovitch), reared from juniper berries.

T. malacosomae Gir. Ithaca, Spring Val., Suffern, Tallman, White Plains, *CLLiu* (Mues-CU), reared from eggs of apple-tree tent-caterpillar.

T. marcovitchi (Crawf.). Ithaca, *Marcovitch* (types), reared from juniper berries.

T. rapae Wlk. Ithaca, *Mues* (Gahan-CU), from *Apanteles glomeratus* (L.).

FAMILY TRICHOGRAMMIDAE

HYDROPHYLAX Matheson and Crosby

H. aquivolans Mat. & Cy. Ithaca (types-CU).

TRICHOGRAMMA Westwood

T. minutum Rly. Utica; Ithaca; Schoharie; Albany; Youngstown.

FAMILY MYMARIDAE

ANAGRUS Haliday

A. ovijentatus Cy. & Leon. Ithaca, egg parasite on *Lygus pratensis* L.

CARAPHRACTUS (Haliday) Walker

C. cinctus Wlk. Ithaca (Mat&Cy), reared from eggs of Notonecta.

GONATOCERUS Nees

G. ovicenatus Cy. & Leon. Ithaca (types-CU), egg parasite of *Idiocerus scurra* Germ.

POLYNEMA Haliday

P. piceipes Gir. Oswego.

FAMILY EVANIIDAE

EVANIA Fabricius

(Subgenus **EVANIA** Fabricius)

E. appendigaster L. NYC; **LI:** Brooklyn (Sf). This and the following species are parasites of domestic cockroaches, and are found in cities.

E. punctata Brullé (*urbana* Bdy.). Albany, Je 3–Aug 6 (Bdy-NYS); Helderbergs, *SCBishop* (Bdy-NYS); NYC; **SI,** *Ds* (Bdy); **LI:** Brooklyn, Je, *Eng* (Sf); Flatbush, *Zab* (Bdy-AM); Bellport, *Nic* (Sf).

(Subgenus **EVANIELLA** Bradley)

E. semaeoda Bdy. **LI:** Wading R. (Sf).

HYPTIA Illiger

H. harpyoides Bdy. Ithaca, Jl 9–17 (types-CU); **LI:** Flatbush, Jl 2, *Zab* (Bdy-CU); Central Pk., Jl (Sf); Cold Sp. Harb., Jl 31 (Bdy-AM); Wading R. (Sf).

H. mylacridomanesa Bdy. Ithaca, *Comstock* (type-CU).

H. reticulata Say. Huguenot, *Zab* (Brues-AM); **LI:** Bellport, *Nic* (Sf-AM).

H. prosetethetra Bdy. **LI:** Flatbush, Fishers I., *Zab* (Brues-AM).

H. thoracica Blanch. **LI:** Wading R. (Sf).

Superfamily VESPOIDEA

FAMILY PSAMMOCHARIDAE: THE SPIDER-HUNTING WASPS[165]

(*Pompilidae*)

SUBFAMILY PSAMMOCHARINAE

(*Pompilinae*)

(The members of this subfamily construct subterranean nests which they provision with spiders.)

Tribe PSAMMOCHARINI

(*Pompilini*)

AGENIOIDEUS Ashmead

A. humilis (Cress.). Keene Val., *Not* (Beq); Ithaca, Jl 1–7 (Bks-MCZ); **LI** (Bks-MCZ).

ALLOCYPHONYX Ashmead

A. maurus (Cress.). Saranac, Jl, 1905, *Yg* (NYS).

APORINELLUS Banks

A. fasciatus (F. Sm.). **LI:** Pennequid Barrens (Beq). Austral species.

A. ferrugineipes (Vier.). **LI:** Bayville (Bks-Beq, 1919). Austral species.

ARACHNOPHROCTONUS Ashmead

A. ferrugineus (Say). Ithaca, Aug 7 (Bks-CU); Ft. Montgomery, *Schott* (Beq); **SI** (Beq). Widely distributed; a common southern species. Ithaca must be nearly its northern limit.

BATAZONUS Ashmead

B. interruptus (Say). Gloversville, Sep, 1908 (NYS); Rochester Jct., Jl 7, *Leon* (Bks-CU); White Plains (Beq); **LI:** Jamaica, Springs, Mastic, Wyandanch, Orient (Beq). Austral form.

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[165] The manuscript for this family has been submitted to Messrs. Banks, Bequaert, and Rohwer, and we are indebted to these gentlemen for their criticisms, suggestions, and additions. Mr. Banks has kindly indicated the proper generic position of certain species.

EPISYRON Schiødte

E. biguttatus (Fab.). Keene Val., Aug 3, *Not* (AM); New Russia, Aug 18, *Bdy* (Bks-CU); Potsdam, Je (Bks-CU); Buffalo (Beq); Cattaraugus, Sep 4 (Bks-CU); Ithaca, Jl 25 (Bks-CU); Norton's Landing, May 25–Jl, *SmHH* (Cress-CU); McLean, Jl 9–Aug 17, *Sib* (Bdy-CU); Oliverea (Beq); L. George, Aug, *Zab* (AM); Rhinebeck, Jl 27, *Cy* (Bks-CU); Katonah, Aug, *Bt* (AM); West Farms, *Angus* (AM); **LI:** Wyandanch, Orient, Gardiners I. (Beq); Barren I., Aug, *Zab* (AM). Chiefly Canadian. Provisions its nest with *Epeira labyrinthea.*

E. quinquenotatus (Say). Wilmington, Aug 20-25 (Bks-CU); Keene Val., *Not* (Beq); Ithaca, Jl 25–Aug 8 (Bks-CU); L. George, Aug 22, *Zab* (AM); Ft. Montgomery, *Schott* (Beq); **LI:** Rosedale, *Schott* (Beq); Forest Hills, Sep 11, *Frost* (Bks-CU); Flatlands, *Zab* (AM); Wading R., Jl (Ds). Canadian. Provisions its nest with *Epeira strix.*

E. snowi (Vier.). Rochester Jct., Je 7, *Leon* (Bks-CU). A southern form ranging into Canada.

PEDINASPIS Kohl

P. niger (Cress.). Boston, Niagara Falls, Lancaster, Jl–Aug, *MCV* (Bks-MCZ); **LI:** Orient, Aug, *Zab* (Bridwell-AM).

PSAMMOCHARES Latreille

(*Pompilus* Fabricius)

(Subgenus **PSAMMOCHARES** Latreille)

P. atlanticus Bks. **LI:** Long Beach, Aug (types-AM).

P. astur Bks. New Russia, Aug 18, *Bdy* (Bks-CU). Canada to Va.

P. lasiope Bks. Essex Co, Aug 18, *Bdy* (paratype-CU); Saranac L., Aug 25 (type-CU); Ithaca, May, 1907 (paratype-CU).

P. relativus (Fox). New Russia, Aug 18, *Bdy* (Bks-CU); White L. (AM); Manlius, Sep 1–21, *SmHH* (Cress-CU); **LI:** Fire I., Aug 7 (AM); Wading R., *Ds*; Orient, Long Beach, Gardiners I. (Beq).

P. pretiosa Bks. **LI:** Sea Cliff, on the beach (types-MCZ).

P. scelestus (Cress.). Speculator, Aug, 1912, *Yg* (NYS); Harford to Caroline, Je 15, *MacG, Bdy* (Bks-CU).

P. sublaevis Bks. **LI:** Sea Cliff (one of the types-MCZ).

P. tropicus (Fab.). **SI:** Watchogue (Beq); **LI:** Orient (Beq).

P. ventralis Bks. Ithaca, Jl 1 (Bks-CU). Known also from Ga.

(Subgenus **LOPHOPOMPILUS** Radoszkovszky)

P. aethiops (Cress.). Round I. (Bks-CU); Gloversville, Sep, *Yg* (NYS); Albion (Bks-CU); Cattaraugus, Sep 4 (Bks-CU); Otto, Sep 1–15, *Comstock* (Bks-CU); Ithaca, Jl 24–Aug 28 (Bks-CU); McLean, Jl 18–Sep 14, *Sib* (Bdy-CU); Oliverea (Beq); Nyack, West Farms, Mosholu (AM); Atwater, Sep 17; **SI** (Beq); **LI:** Sea Cliff (Bks-CU); Flatbush (AM); Long Beach, Gardiners I. (Beq).

P. atrox (Dahlbom). Ithaca, Jl 25 (Bks-CU); **LI:** Flushing, Jamaica, Rockaway Beach, Wyandanch (Beq).

P. bengtssoni Regan. **LI:** Riverhead, Sep 14 (Bdy-CU); Fishers I., Long Beach (paratype); Wyandanch, Gardiners I. (Beq).

P. cleora Bks. Regan records this species from Ithaca and from Rockaway and Wading R., **LI;** but Banks thinks these eastern records of *cleora* are really his *ilione*.

P. ilione Bks. **LI:** Sea Cliff (one of the type series).

(Subgenus **ANOPLIUS** Lepeletier)

P. depressipes (Bks.). Ithaca, Jl 21 (type-CU).

P. illinoiensis (Robertson). New Russia, Aug 18, *Bdy* (Bks-CU); Cattaraugus, Sep 4 (Bks-CU); Otto, *Comstock* (Bks-CU); Ithaca, Jl 4–Aug 24 (Bks-CU); McLean, Jl 18–Sep 12 (Bks-CU); Oliverea (Beq); Middletown, Jl 2–20, *Spooner* (Bks-CU); **SI** (Beq).

P. ithaca Bks. New Russia, Aug 18, *Bdy* (Bks-CU); L. Keuka, Je 28, *Cy* (Bks-CU); Ithaca, Jl (type), common, May 23–Aug 26 (Bks-CU); Thousand Isls. (Bks-CU).

P. luctuosus (Cress.). **SI** (Beq). This is a western and northern species.

P. similaris Bks. Ithaca, Jl 19, 25 (types-CU).

P. tenebrosus (Cress.). Keene Val., *Not* (Beq); Saranac, Jl, *Yg* (NYS); Old Forge, Jl, *Yg* (NYS); Ithaca, Aug 15, McLean, Jl 29, Malloryville, Je 18–20, *MacG*, *Bdy* (Bks-CU); **LI:** Coney I., Oct 6, *Zab* (AM). Chiefly a Canadian and Rocky Mt. species.

P. virginiensis (Cress.). New Russia, *Bdy* (Bks-CU); Ithaca, Je 10–Aug 7, McLean, Jl 27–Aug 12, W. Danby, Aug 15, Harford to Caroline, Je 15, *MacG*, *Bdy*, Spencer, Je 30 (Bks-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); Ft. Montgomery, *Schott* (Beq); **SI** (Beq); **LI:** Gardiners I. (Beq). Transitional to austral.

(Subgenus **POMPILOIDES** Radoszkovszky)

P. americanus (Pal. de Beauv.). New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); **SI** (Beq); **LI:** Brooklyn (Beq); Farmingdale, Jl 18, *Morrow* (Bks-CU). A southern species.

P. cylindricus (Cress.). New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); Wilmington, Aug 20–25, 1000–2000 ft. (Bks-CU); Speculator, Aug 12, *Yg* (NYS); Ithaca, May–Aug 31, Spencer, Je 30, McLean, Jl 3–Sep 24, *Sib* (Bks-CU); Norton's Landing, Cayuga L., Je 22, *SmHH* (Cress-CU); **LI:** Wading R., Orient (Beq). Essentially a Canadian species.

P. marginatus (Say). Keene Val., *Not* (AM); New Russia, Aug 18, *Bdy* (Bks-CU); Potsdam, Aug 14 (Bks-CU); White L., *Zab* (AM); Rochester Jct., Jl 14, *Leon* (Bks-CU); Manlius, Sep 6, *SmHH* (Cress-CU); Ithaca, Taughannock, Jl 15–Sep 1 (Bks-CU); Homer, Jl 2 (Bks-CU); Oliverea (Beq); White Plains (Beq); Mosholu (AM); West Farms, *Angus* (AM); **SI** (Beq); **LI:** Forest Hills, Sep 11, *Frost* (Bks-CU); Riverhead, Sep 17 (Bks-CU); Coram, Fishers I. (AM); Mastic, Yaphank, Gardiners I. (Beq).

P. rectus (Bks.). Black Br., Je 21 (Bks-CU); E. Aurora, *MCV* (MCZ, one of type series); Ithaca, Jl 9–25 (Bks-CU); **LI:** Orient (Beq).

P. reducta (Bks.). Wilmington, Aug 20–25, 1000–2200 ft. (Bks-CU); McLean, Jl 18, 1921 (Bdy-CU). Known chiefly from Canada.

P. semirufus (Cress.). **LI:** Long Beach (Beq).

(Subgenus **SERICOPOMPILUS** Ashmead)

P. humilis (Cress.). "NY", type.

(Subgenus **NANNOPOMPILUS** Ashmead)

P. argenteus (Cress.). White L., Aug 25, *Zab* (AM); McLean, Jl 18, 1921 (Bdy-CU); Catskills (AM); Rhinebeck, Jl 27, *Cy* (Bks-CU). An austral species.

P. rufibasis (Bks.). Ithaca, early Jl (holotype).

(Subgenus **SOPHROPOMPILUS** Ashmead)

P. brevicornis (Cress.). Niagara Falls, Jl, *MCV* (Bks).

P. hyacinthinus (Cress.). E. Aurora, Elma, Jl–Aug, *MCV* (Bks); Ithaca, Jl 25, Otto, *Comstock* (Bks-CU); Oliverea (Beq); **LI:** Orient (Beq).

P. ingenuus (Cress.). New Russia, Aug 18, *Bdy* (Bks-CU); **SI** (Beq); **LI:** Sea Cliff, Aug (Bks-Mus. Comp. Zool., Harvard Univ.); Long Beach (Beq); Rockaway Beach (Beq).

P. quadrispinosus Bks. **LI:** Long Beach, Aug (Bks); Orient, Gardiners I. (Beq).

P. subviolaceus (Cress.). Albany, Jl, 1906, *Yg* (NYS); **LI:** Cold Sp. Harb. (AM); Gardiners I. (Beq). Mr. Banks considers that this is probably identical with *P. hyacinthinus.*

Tribe **PEPSINI**

AGENIELLA Banks

A. accepta (Cress.). **LI:** Riverhead (Beq).

A. bombycina (Cress.). Rochester Jct., Jl 11, *Leon* (Bks-CU); Ithaca, bred from mud nest found under stone, adults emerged Je 14, *Comstock* (Rly-CU); West Farms, *Angus* (Cress-AM); **LI:** Brooklyn (Beq); Rockaway (AM).

A. calcarata (Cress.). Ithaca, Jl 16 (Bks-CU).

A. eximia Bks. Ithaca, Jl 2–Aug 10 (paratype-CU).

A. iridipennis (Cress.). Ithaca, Jl 22 (Bks-CU).

A. norata Bks. Niagara Falls, *MCV* (one of type series-Mus. Comp. Zool., Harvard Univ.).

A. perfecta (Prov.). E. Aurora, Jl, *MCV* (Bks); Ithaca, Jl 10 (Bks-CU).

A. petiolata (Cress.). **LI:** Gardiners I. (Beq).

A. tenella Bks. Niagara Falls, Jl 31, *MCV,* Boston, Aug 1, *MCV* (types).

AGRIOGENIA Banks

A. brevis (Cress.). **LI:** Springs (Beq).

A. pulchripennis (Cress.). Albany, Je, *Yg* (NYS); Poughkeepsie, Je, 1908, *Yg* (NYS); West Farms, *Angus* (AM).

CRYPTOCHEILUS Panzer

C. fulvicornis (Cress.). **LI:** Sheepshead Bay, Aug, 1903, *Yg* (NYS).

C. magnus (Cress.). **LI:** Riverhead (Beq).

C. minorata (Bks.). Ithaca, May 13–Sep 7 (Bks-CU).

C. unifasciatus (Say). New Baltimore (AM); Albany, Aug, 1907 (NYS); Ft. Montgomery, Aug 19, *Schott* (Beq); Stony Pt. (Beq); Bear Mt., *Ols* (Beq); Thiells, Aug 22, *Wat* (Ds); **SI,** Aug 25, *Ds* (Beq); **LI:** Cold Sp. Harb. (AM); Mastic (Beq).

PRIOCNEMIS Schiødte

P. alienatus (Sm.). Manlius, Aug 29, *SmHH* (Cress-CU); Taughannock, Aug 22, *HJones* (Bdy); Ithaca, Jl 9, Mud Cr., Je 17–20, *MacG, Bdy* (Bks-CU); Ft. Montgomery, W. Nyack, *Schott* (Beq); West Farms, *Angus* (Bks-AM); **SI:** Watchogue, Sep (Ds); **LI:** Sea Cliff, Sep (Bks); Port Jefferson, Cold Sp. Harb., Orient, Long Beach (Bks-AM); Pennequid Barrens, Gardiners I. (Beq).

P. conicus (Say). New Russia, Aug 18, *Bdy* (Bks-CU); Rock City, Je 9 (Bks-CU); Ithaca, May 2–Je 8, common, McLean Bogs, May 30, Taughannock Falls, May 15, Slaterville to Caroline, Je 14 (Bks-CU); Norton's Landing, Cayuga L., May 25–Je 5, *SmHH* (Cress-CU); Oliverea (Beq). Essentially a transitional species.

P. fortis (Cress.). "NY" (type-AES).

P. germanus (Cress.). Keene Val., *Not* (Beq); Keene (Bks-CU); New Russia, Aug 18, *Bdy* (Bks-CU); Old Forge, Jl, *Yg* (NYS); White L., Aug 16, *Zab* (Bks-AM); Ithaca, Jl 19 (Bks-CU); Oliverea (Beq); NYC (Beq); **LI:** Cold Sp. Harb., Gardiners I. (Beq).

P. nebulosus (Dahlb.). "NY" (Cress).

P. nothus (Cress.). E. Aurora, *MCV* (Bks); Otto, Comstock (Bks-CU); Ithaca. Jl 28.

P. pompilius (Cress.). Ithaca, Aug 10–Sep 1 (Bks-CU); Ft. Montgomery, *Schott* (Beq). Mostly austral; also Pacific Coast.

P. relictus (Bks.). **LI:** Sea Cliff, Sep (type).

PSEUDAGENIA Kohl

P. albopilosa (Cress.). Ithaca, Jl 22–Sep, and Otto, *Comstock* (Bks-CU).

P. architecta (Say). Ithaca, Mar 20–Jl 22 (Bks-CU); Poughkeepsie, Je, *Yg* (NYS); **LI:** Huntington, *Schott* (Beq). Builds mud cells under stones.

P. caliptera (Say). New Russia, Aug 18, *Bdy* (Bks-CU); Niagara Falls, Jl, *MCV* (Bks); Ithaca, Je 9–Jl 26 (Bks-CU); Ft. Montgomery, *Schott* (Beq); Mosholu, Je 18 (AM); **LI:** Port Jefferson, Gardiners I. (Beq).

P. mellipes (Say). Pike (NYS).

P. nanella Bks. Ithaca (paratype); **LI:** Sea Cliff (type).

P. nigrella Bks. Ithaca, Jl 1 (Bks-CU).

P. variitarsata D.T. New Russia, Aug 18, *Bdy* (Bks-CU); Keene Val., *Not* (Beq); Otto, Aug, *Comstock* (Bks-CU); Ithaca, Je 25–Aug 19 (Bks-CU); McLean, Aug 7–18, 1925, *Robinson*, Aug 23–31, 1924, *Sib* (Bdy-CU).

SUBFAMILY CEROPALINAE

(The members of this subfamily live as social parasites in the nests of other Psammocharidae.)

CEROPALES Latreille

C. bipunctata Say. Newport, Aug, 1909 (NYS); Clifton Sps., Aug 18 (Bdy-CU); Otto, Sep, *Comstock* (Bdy-CU); Cattaraugus, Sep 14 (Bdy-CU); Johnstown, Aug (NYS); Ithaca, not rare (Bks-CU); Freeville, Aug 17 (Bdy-CU); Stony Pt., NYC (AM); **SI** (Beq); **LI:** Long Beach, Gardiners I. (Beq).

C. fraterna Sm. Peru, Je 10 (Bks-CU); New Russia, Aug 18 (*Bdy*-CU); Wilmington, Aug 20–25, 1000–2200 ft. (Bks-CU); Honeoye Falls, Aug 15, *Leon* (Bks-CU); Otto, Sep, 1886, *Comstock* (Bdy-CU); Ithaca, Je 7–Jl 25, frequent (Bks-CU); Malloryville, Je 18–20, *MacG* (*Bdy*-CU); McLean, Jl 18, 1921 (Bdy-CU). A common Canadian and transitional form.

C. robinsonii Cress. McLean, Jl 19, visiting *Cicuta maculata, And* (Bdy-CU). A rare species, mostly southern and central.

FAMILY **CHRYSIDIDAE**: CUCKOO WASPS, or GOLD WASPS

Compiled by LELAND H. TAYLOR

(These wasps live as social parasites in the nests of solitary bees and wasps.)

OMALUS Jurine

(*Elampus* Spinola)

O. corruscans (Nort.). Aurora (E. Aurora?) (AM); Manlius, Aug 4, Norton's Landing, Cayuga L., May 25–Je 22, *SmHH* (MacG).

O. laeviventris Cress. Albany, Je, Karner, May (NYS).

O. sinuosus (Say). Norton's Landing, Cayuga L., Je 2, *SmHH* (MacG-CU).

HOLOPHRIS Mocsáry

H. iridescens (Nort.). Norton's Landing, Cayuga L., May 25–Je 15, Ithaca, May–Jl 16, *SmHH* (MacG-CU). McLean, Sep 12, 1924, *Sib* (Bdy-CU).

NOTOZUS Foerster

N. marginatus Patton. N. Fair Haven, Jl 4 (Taylor-CU); Penn Yan, Jl 12, 1925, *Babiy* (Taylor-CU); Ithaca, Jl 16–19 (MacG, Bdy–CU).

N. viridicyaneus (Nort.). Herkimer, Aug 8, 1921, *Leon* (Taylor-CU).

HOLOPYGA Dahlbom

H. ventralis (Say). Norton's Landing, Cayuga L., Jl, *SmHH* (MacG-CU); Ithaca, Je–Jl 21 (MacG-CU).

HEDYCHRIDIUM Perrin

H. dimidiatum (Say). Manlius, Aug 4, *SmHH* (MacG-CU); Ithaca, Jl 25 (Bdy-CU).

HEDYCHRUM Latreille

H. violaceum Brullé. Long L., Aug (NYS); N. Fair Haven, Jl 4, 1922, Spring Lake, Jl 22, 1918, *Bdy* (Taylor-CU); Ithaca, Jl 5–Aug 26 (MacG, Bdy-CU); Karner, Je (NYS).

PARNOPES Fabricius

P. aglaspidula Melander and Brues. "NY" (Taylor).

CHRYSIDEA Bischoff

(*Chysogona* auctt. not Foerster)

C. verticalis (Patton). Wilmington, White L. (Taylor-CU); Canandaigua L., Je (NYS); Otto, *Comstock* (MacG-CU); Penn Yan, Jl 12, 1925, *Babiy* (Taylor-CU); Norton's Landing, Cayuga L., May 31–Je 21, *SmHH* (MacG-CU); Ithaca, Je 8–Aug 31 (Taylor-CU); Caroline to Harford (Taylor-CU); New Baltimore (AM); Albany, Je, Nassau, May (NYS); West Farms (Taylor-CU); **LI:** Cold Sp. Harb., Sea Cliff (Taylor-CU).

CHRYSIS Linnaeus

(Subgenus **OLOCHRYSIS** Lichtenstein)

C. hilaris Dahlb. Norton's Landing, Cayuga L., *SmHH* (MacG-CU); Ithaca, May 11 (MacG-CU).

C. pacifica Say. Ithaca (Taylor-CU).

(Subgenus **GONOCHRYSIS** Lichtenstein)

C. perpulchra Cress. Keene (Taylor).

(Subgenus **MONOCHRYSIS** Lichtenstein)

C. discreta Aaron. Ithaca, Sonyea, **SI** (Taylor-CU).

(Subgenus **TRICHRYSIS** Lichstenstein)

C. tridens (Lep.) (*parvula* Fab.). Wells, Jl, *Yg* (NYS); Ithaca, New Windsor (Taylor-CU).

(Subgenus **TETRACHRYSIS** Lichstenstein)

C. cessata duBuysson. N. Fair Haven, Jl 4, 1922, *Snn* (Taylor-CU); Portageville, Ithaca, Jl 5–Aug 2, *Babiy*, Norton's Landing, Cayuga L., May 30–Je 27, *SmHH* (Taylor-CU); McLean, Je 20, 1924, *Sib* (Taylor-CU); Manlius, Sep 15 (Taylor-CU); West Farms (Taylor-CU).

C. coerulans Fab. Summit of Mt. McIntyre, Sep 2, 1922, *Snn&Sib* (Taylor-CU); Ithaca, Je 26–Sep 18 (Taylor-CU). It is not certain that these really represent the Fabrician species.

C. conserta duBuysson. "NY" (duBuysson).

C. nitidula Fab. Ithaca, Je 26–Jl 29 (Taylor-CU); McLean, Aug 18, 1925, *Sib* (Taylor-CU). "There is considerable doubt that this is the Eur. *nitidula*, but it is provisionally so determined." (L. H. T.)

C. pellucidula Aaron. Manlius, Aug 2, *SmHH* (MacG-CU); Ellis to Slaterville, Je 13, 1904, *MacG&Bdy* (Taylor-CU); **LI:** Cold Sp. Harb. (Taylor).

(Subgenus **HEXACHRYSIS** Lichstenstein)

C. inaequidens Dahl. "NY" (Brullé).

C. smaragdula Fab. Ithaca, Je 18 (Bdy-CU); **LI:** Sea Cliff (Taylor).

FAMILY ANTHOBOSCIDAE

SIEROLOMORPHA Ashmead

S. ambigua Ashm. Ithaca, Jl 20, 1904, one specimen (Bdy-CU). An extremely rare insect, of unknown habits.

FAMILY SAPYGIDAE

(These are extremely rare social parasites of aculeate Hymenoptera.)

SAPYGA Latreille

S. americana Cress. "NY" (type-AES); Ithaca (*Bdy*-CU); Taughannock Falls, Je 6, 1925 (*Bdy*-CU); Center Lisle, Je 10, *PBFletcher* (Bdy-CU); Nyack (Bdy-AM); West Farms, *Angus* (Bdy-AM).

S. centrata Say. Chappaqua, Je 15, 1919, *Wat* (Bdy-AM).

S. martini Sm. Ithaca, Je 6 (Bdy-CU).

FAMILY TIPHIIDAE

SUBFAMILY TIPHIINAE

TIPHIA Fabricius [166]

(The members of this genus live in the larval stage on white grubs, Phyllophaga.)

T. clypeata Robertson. Ithaca, Jl 19 (Bdy-CU); **LI:** Sea Cliff, *Bks* (Mall-Mus. Compar. Zool., Harvard Univ.).

T. clypeolata Mall. Ithaca, Jl 20, 1904 (Mall-CU).

T. punctata Robertson. Ithaca, Aug 7, 1897 (Mall-CU).

T. similis Mall. Ithaca, Jl 20, 1904 (Mall-CU).

T. transversa Say. Ithaca, Jl 19–24 (Bdy-CU). This seems to be the common local species at Ithaca.

T. robertsoni Mall. Ithaca, Aug 4, 1885 (Mall-CU).

T. inornata Say. Ithaca, Jl 17–Aug 18 (Bdy-CU).

T. illinoiensis Robertson. Ithaca, Jl (Bdy-CU).

ELIS Fabricius

(*Myzine* auctt.)

(The members of this genus are southern, and are confined in New York to the sandy coastal region. The adults are found on flowers of Compositae and Umbelliferae in late summer. The larvae live on white grubs.)

E. interrupta (Say). **SI** (Beq); **LI:** Springs, Rosedale, Huntington, Pennequid Barrens, Gardiners I. (Beq).

E. quinquecincta (Fab.) (*sexcincta* auctt.). **SI** (Beq); **LI:** Springs, Wyandanch, Huntington, Long Beach, Gardiners I. (Beq).

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[166] The North American species of the genus Tiphia in the collection of the Illinois State Natural History Survey. By J. R. Malloch. Ill. Nat. Hist. Survey. Bul. 13.

SUBFAMILY **METHOCINAE**

METHOCA Latreille

M. stygia (Say). Rochester Jct., Je 30, *Leon* (Bdy-CU); Taughannock, Aug 1, a male, *Guerlac* (Bdy-CU); Ithaca, Aug 12, 1925, *Babiy* (Bdy-CU). The larvae live on the larvae of tiger beetles.

SUBFAMILY **MYRMOSINAE**

MYRMOSA Latreille

(Subgenus MYRMOSA Latreille)

M. unicolor Say. Chilson L., Jl 15 (Ds); Rochester Jct., Je 19–30, *Leon* (Bdy-CU); Ithaca, Je 24–Aug 6 (Bdy-CU); Taughannock, Aug 15, a female, *Guerlac* (Bdy); McLean, Aug, 1916 (Bdy-CU); L. George, *Zab* (Bdy-AM); Ft. Montgomery, Jl 7, *Schott* (Roh); Rhinebeck, Jl 27, *Cy* (Bdy-CU); West Farms (AM); **LI:** Cold Sp. Harb., Flatbush, Parkville (Bdy-AM). The females are found in gravel pits among burrows of Halictus, in which they doubtless lay their eggs.

M. blakei Bdy. "NY", a female (type-AES).

FAMILY **MUTILLIDAE**[167]

PSEUDOMETHOCA Ashmead

P. canadensis (Blake). Rocky Glen, Aug 23 (Mickel); Cinnamon L., Je 5, *Babiy* (Bdy); Ithaca, Jl 19–Aug 10 (Mickel-CU); McLean, Aug 2 (Mickel-CU); Nyack, West Farms (Mickel); **LI:** Yaphank (Mickel). Occurs throughout eastern US.

P. geryon (Fox). **LI:** Sea Cliff, Aug, *Bks* (Bdy-MCZ). An austral species.

P. simillima (Sm.). **SI,** Aug 8, *Ds* (Bdy); **LI:** Flatbush, May 16–Sep 6 (Mickel); Selden, Aug 30, *Ds* (Mickel); Wyandanch, May (Mickel); Kissena L., Aug 20 (Mickel). An austral species.

P. sanbornii (Blake). New Russia, Sep 12, *Bdy* (Mickel-CU); **LI:** Cold Sp. Harb., Jl 27 (Mickel). Occasional in the Carolinian zone, extending slightly into the Transitional.

DASYMUTILLA Ashmead[168]

(Subgenus BRUESIA Ashmead)

D. bexar (Blake) (*harmonia* Fox,♀). Karner, Je 28–Jl 24, ♂♀ (Bdy-NYS); Albany, Jl 9, ♀ (Bdy-NYS); **LI:** Selden, Sep 1, ♀, *Ds* (Mickel-CU); Cold Sp. Harb., Je 17–Sep 14, *And, SHEmerson* (Mickel-CU).

(Subgenus DASYMUTILLA Ashmead)

D. occidentalis (L.). Mt. Vernon, Sep 1 (Bdy-NYS); **LI:** Selden, Amagansett, Aug 10, thirty-one ♀♀, *Ds* (Mickel-CU); Montauk, Aug, *Ang* (Bdy-NYS). A very common austral species.

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[167] Contributions toward a monograph of the Mutillidae and their allies of America north of Mexico, II. The Mutillidae of the eastern United States. By J. C. Bradley. Trans. Amer. Ent. Soc., 1916, **42**: 309–336.

[168] Dr. C. E. Mickel, who is revising the genus Dasymutilla, has kindly furnished the records known to him for this genus.

D. gibbosa (Say). Ithaca, Jl 27, male (Mickel, Bdy-CU); Rhinebeck, Jl 27, male, *Cy* (Mickel-CU); Middletown, Jl 2–10, male, *Spooner* (Mickel-CU); **LI:** Sea Cliff, Jl 23, *HTBasset* (Bdy-AES); Cold Sp. Harb., Jl 16, male (Mickel-CU). A scarce species of the Transition zone, extending into the Carolinian.

D. cariniceps (Fox). Ithaca, Je 23–Aug 7, female (Bdy, Mickel-CU); **LI:** Sea Cliff, *Bks* (Bdy-Mus. Compar. Zool., Harvard Univ.); Cold Sp Harb., Jl 16–Sep 15, females, *SHEmerson, And* (Mickel-CU). Probably the female of *gibbosa*; range the same.

D. agenor (Fox). Mosholu, Aug 9, male (Mickel-Penn. State Col.); **LI:** Cold Sp. Harb., Je 27, male, *And* (Mickel-CU).

D. rugulosa (Fox). **LI:** Sea Cliff, Jl, female, *Bks* (Bdy, Mickel-CU); Cold Sp. Harb., Je 19–Sep 13, females, *And, SHEmerson* (Mickel-CU).

D. cypris (Blake). **LI:** Yaphank, Bellport, Wading R., Aug 27, females, *Ds* (Mickel-CU); Cold Sp. Harb., Je 17–27, female, *And* (Mickel-CU).

D. ferrugata (Fab.). **LI:** Wading R., Selden, Yaphank, Aug 27–Sep 1, females, *Ds* (Mickel-CU); Cold Sp. Harb., Je 22–Sep 12, females, *And, SHEmerson* (Mickel-CU); Amityville, Jl 14, female, *SHEmerson* (Mickel-CU).

D. lepeletieri (Fox). **LI:** Cold Sp. Harb., Je 22–Jl 18, males, *SHEmerson, And* (Mickel-CU); Yaphank, Jl 4 (Mickel-CU).

D. champlaini Roh. New Russia, Aug 12, female, *Bdy* (Mickel-CU); **LI:** Yaphank, Aug 29, female, *Ds* (Mickel-CU); Selden, Amagansett, female, Aug 10–30 (Mickel-CU); Cold Sp. Harb., Jl 8–Aug 4, females, *And, SHEmerson* (Mickel-CU).

D. zella Roh. **LI:** Cold Sp. Harb., Je 17–Aug 25, females, *And, SHEmerson* (Mickel-CU).

D. alesia Bks. **LI:** Yaphank, Aug 16, female, *Ds* (Mickel-CU).

D. hirticula Mickel. Pelham, Aug 7 (paratype); **LI:** Amagansett, Aug 10 (Bdy-BM); Sea Cliff, Jl 1, male, *Bks* (Bdy-MCZ, Mickel-CU); Cold Sp. Harb., Jl 9–18, male, *And, SHAnderson* (Mickel-CU). A species of the Carolinian zone.

D. permista Mickel. **LI:** Flatbush, Jl 21 (paratype); Central Pk., Selden, Yaphank, Aug 27–30, males, *Ds* (Mickel-CU); Cold Sp. Harb., Jl 23–27 (paratype), Jl 9, male, *And* (Mickel-CU). This seems to belong chiefly to the Carolinian zone.

D. obscura (Blake). **LI:** Greenport, Aug 3, female, *Eng* (Bdy); Wading R., female (Bdy-BM). A scarce species of the Carolinian zone.

MUTILLA Linnaeus

(Subgenus TIMULLA Ashmead)

M. briaxus Blake. New Russia, Aug 18, female (Bdy-CU); Crown Pt., Aug, female (Bdy); Selkirk, female, Sep 15, *SCBishop* (Bdy); Rochester Jct., male, Jl 11, *Leon* (Bdy-CU); Ithaca, male and female, Jl (Bdy-CU); **LI:** Queens, Jl 23, male (Bdy-BM); Roslyn, female, Yaphank, Jl 10, female, *Eng* (Bdy); Amagansett, Aug 11, *Eng* (Bdy); Sea Cliff, female, *Bks* (Bdy); E. Hampton, Sep 26, female, *Eng* (Bdy); Cold Sp. Harb., Sep 9, female, *Eng* (Bdy). Ranges from the Rocky Mts. and Canada southward throughout the eastern States to Florida.

M. rufa Lepeletier. **LI:** Sep 5, male, *Eng* (Bdy); Sea Cliff, female, *Bks* (Bdy). An austral species not known from north of **LI.**

M. hexagona Say. **LI:** Central Pk., Ap 17, female, *Eng* (Bdy); Yaphank, Sep 22, Oct 11, male and female, *Eng* (Bdy-CU). Known chiefly from the northern Carolinian zone and not from north of LI.

EPHUTA Say

E. puteola (Blake). **LI:** Yaphank, Sep 24, female, *Eng* (Bdy). An austral species unknown from north of LI.

FAMILY SCOLIIDAE

(The members of this family construct loose cells around the subterranean larvae of Scarabaeidae, paralyzing them and laying their eggs upon them. The species are confined to the warmer parts of the State, and almost exclusively to Long Island and Staten Island.)

SCOLIA Fabricius

S. dubia Say. **LI:** Flushing (Beq). An austral species.

S. nobilitata Fab. **SI,** *Ds* (Bdy); **LI** (Bartlett). An austral species, certainly not to be found in New York State outside of the SI and LI regions.

S. bicincta Fab. L. George, Aug 22, *Zab* (Bdy-AM); Nyack (AM); **LI:** Flatbush, Aug 11, *Zab* (AM).

CAMPSOMERIS Lepeletier

(*Elis* auctt.)

C. **plumipes** (Drury). **SI,** *Ds* (Bdy); **LI:** Manhattan Beach, Flushing, Rockaway Beach, Wading R. (Beq); Yaphank (Bdy-AM).

C. **quadrimaculata** (Fab.). West Farms, *Angus* (AM); **SI,** *Ds* (Bdy); **LI:** Riverhead, *Ds* (Bdy); Pennequid Barrens (Beq).

FAMILY FORMICIDAE

Compiled by JOSEPH BEQUAERT

SUBFAMILY PONERINAE

STIGMATOMMA Roger

S. pallipes (Hald.). Mill Cr., Lewis Co, *Not* (Beq); Ithaca, occasional (Bdy); Walhalla, *Schott* (Beq); White Plains, *Dt* (Beq); Ramapo (Beq); Bronxville (Wheel); Inwood, NYC, *Ds* (Beq); **SI:** Arlington, Je (D&B); **LI:** West Hills, Wading R., North Beach, Yaphank, Cold Sp. Harb. (D&B). This and the following species form very small colonies under stones in woodlands.

PONERA Latreille

P. coarctata (Latr.) subsp. **pennsylvanica** Buck. Thousand Isls.; Manlius, *SmHH* (CU); Ithaca, common everywhere (Bdy); Bronxville (Wheel); **SI:** Arrochar, Watchogue, Clove Val., St. George, and many other places (D&B); **LI:** Wyandanch, E. New York, West Hills, Newtown Hgts., Cold Sp. Harb. (D&B).

SYSPHINCTA Roger

S. pergandei Emery. **SI:** Arrochar near Old Town Road, Je (D&B).

PROCERATIUM Roger

P. crassicorne Emery. **SI:** Old Town Road, May–Nov (D&B); **LI:** Cold Sp. Harb., Aug (D&B).

SUBFAMILY MYRMICINAE

MYRMECINA Curtis

M. graminicola (Fab.) subsp. **americana** Emery. **SI:** Arrochar, Je (D&B); **LI:** Amagansett, Cold Sp. Harb. (D&B). A rare and local species nesting in rotten wood, or under stones, in damp, shady woods.

M. graminicola (Fab.) subsp. **americana** Emery var. **brevispinosa** Emery. "NY" (teste Emery). Nests in small colonies under stones in shady woods, feigning death when disturbed.

MONOMORIUM Mayr

M. minimum (Buck.). **SI:** Clove Val., and elsewhere (L&B); **LI:** Rockaway, Wading R., Baldwin, Pinelawn, Wyandanch, Gardiners I., Cold Sp. Harb. (D&B). Constructs crater nests in sandy or gravelly places.

M. pharaonis (L.). THE LITTLE YELLOW HOUSE ANT. Ithaca; NYC. Introduced. Occurs in houses, warehouses, etc.

SOLENOPSIS Westwood

S. molesta (Say). THE THIEF ANT. **SI:** Tottenville, Long Neck (D&B); **LI:** Baldwin, Wyandanch, Yaphank, Brooklyn, E. New York, Cold Sp. Harb., Forest Pk. (D&B). In open grassy places, nesting under stones, or living in the walls of the galleries of nests of large ants.

CREMATOGASTER Lund

C. lineolata (Say). THE SHED-BUILDER ANT. Wyoming Co (Ds); Ithaca, abundant (Bdy); McLean (Wheel); Debruce, *Ds* (Beq); **SI:** Long Neck, Arlington, Watchogue, and many other places (D&B); **LI:** Oakdale, Calverton, Yaphank, Half Way Hollow Hills, Wading R., Wyandanch, Pinelawn, Amagansett, Flushing, Shelter I., Southold, West Hills (D&B). A very abundant species, nesting under stones in open places, stumps, boards, the bark of old logs, etc.

C. lineolata (Say) var. **cerasi** Fitch. "NY" (Fitch); Ithaca (Comstock).

PHEIDOLE Westwood

(These are harvesting ants, and are confined to the sandy coastal regions.)

P. davisi Wheel. **LI:** Wading R., Je (D&B). Makes small craters in pure white sand of the pine barrens.

P. morrisi Forel. **LI:** Wading R., Yaphank, Selden (D&B). Forms low mounds in pure sand, sometimes covering one or two square feet, and often about the roots of a plant (Wheel).

P. pilifera (Roger). Southfields, *Schott* (Beq); Hillburn, *Schott* (Beq); **SI:** Tottenville, Arrochar, and elsewhere (D&B); **LI:** Aqueduct, Pinelawn, Baldwin, Wyandanch, Cold Sp. Harb. (D&B). Constructs obscure craters with several openings in sandy or gravelly soil, more rarely lives under stones (Wheel).

P. tysoni Forel. Bronxville (Wheel).

P. vinelandica Forel. **SI:** Watchogue, Richmond Val., Rossville, Tottenville (D&B). Constructs diminutive craters in pine barrens where the soil is mixed with clay (Wheel).

STENAMMA Mayr

S. brevicorne (Mayr). Norton's Landing, Cayuga L. (SmHH); Ithaca, Caroline to Harford (MacG&Bdy); **SI,** in a salt meadow, May, Nov; **LI:** Cold Sp. Harb., May (D&B). This is a rare ant, nesting under stones or in vegetable mold in rich woods (Wheel).

S. brevicorne (Mayr) subsp. **diecki** Emery. W. Nyack (Beq).

S. brevicorne (Mayr) subsp. **diecki** (Emery) var. **impressum** Emery. Richfield Sps. (Emery), type.

APHAENOGASTER Mayr

(The species of this genus nest under bark or stones, or the rotten wood in woodlands.)

A. tennesseensis (Mayr). McLean (Beq); Ithaca.

A. treatae Forel. **SI:** Long Neck, and elsewhere (D&B); **LI:** Pinelawn, Sep, Long Pond, Deep Pond, Wading R., Riverhead, Central Pk., Calverton, Yaphank, Gardiners I. (D&B).

A. fulva Roger. Ithaca; Bronxville (Wheel); Ramapo (Wheel).

A. fulva Roger subsp. **aquia** Buck. Portage, Rock City, *Ds* (Beq); McLean (Wheel); Oliverea, *Ds* (Beq); Southfields, Hillburn, *Schott* (Beq); **LI:** Little Neck, Huntington, Cold Sp. Harb. (D&B).

A. fulva Roger subsp. **aquia** var. undescribed. Van Cort. Pk. (Beq); **SI:** New Dorp, Clove Val. (D&B); **LI:** Valley Stream, Wyandanch, Half Way Hollow Hills, Amagansett, Baldwin, Yaphank, Gardiners I., Selden (D&B).

A. fulva Roger subsp. **aquia** var. **picea** Emery. **SI:** Arrochar, Je (D&B); **LI:** Smithtown, Cold Sp. Harb. (D&B).

MYRMICA Latreille

M. punctiventris Roger. **SI:** Long Neck, and other places (D&B); **LI:** Wyandanch, Yaphank, Amagansett, Gardiners I., Cold Sp. Harb. (D&B). A rare species, nesting in small colonies under stones or moss in shady woods (Wheel).

M. punctiventris Roger subsp. **pinetorum** Wheel. **LI:** Yaphank, Wading R. (D&B). Nests in pure sand.

M. scabrinodis Nyl. var. **fracticornis** Emery. Buffalo (teste Emery).

M. scabrinodis Nyl. var. **sabuleti** Mein. Debruce, West Pt., *Ds* (Beq); Bronxville (Wheel); **SI,** found several times (D&B); **LI:** Maspeth, Orient Pt., Fire I., Amagansett, Wyandanch, Yaphank (D&B). Nests in sandy or gravelly, sunny places, such as open pastures, roadsides, etc. (Wheel).

M. scabrinodis Nyl. subsp. **schencki** Emery var. **emeryana** Forel. Wilmington, *Ds* (Beq); Genesee Co, *Ds* (Beq); Ithaca; White Plains (Beq); Bronxville (Wheel); Inwood, NYC, *Ds* (Beq); **SI:** Tottenville, Arrochar, Long Neck, and many other places (D&B); **LI:** Pinelawn, Wading R., Gardiners I., Rockaway Beach, Montauk, Yaphank, Central Pk., Massapequa, Wyandanch, Half Way Hollow Hills, Amagansett, Orient Pt., Smithtown, Brooklyn, Cold Sp. Harb. (D&B).

M. brevinodis Emery var. **canadensis** Wheel. McLean (Wheel-CU); E. Jewett, Oliverea, *Ds* (Beq); **LI:** Pinelawn (D&B).

LEPTOTHORAX Mayr

L. curvispinosus Mayr. McLean (Wheel-CU); **SI:** Richmond, Watchogue, Arrochar, and many other places (D&B); **LI:** Half Way Hollow Hills, Wyandanch, Yaphank, Amagansett, Pinelawn, Cold Sp. Harb. (D&B). Nests in hollow twigs and galls (Wheel).

L. curvispinosus Mayr subsp. **ambiguus** Emery. "NY" (teste Emery).

L. longispinosus Roger. McLean (Wheel-CU); West Pt., *Ds* (Beq); **SI:** Willow Br., May, Tottenville, Arrochar (D&B); **LI:** Amagansett, Half Way Hollow Hills, Gardiners I. (D&B). Nests under small stones lying on large boulders, in the clefts of rocks, in hollow nuts lying on the ground, and more rarely under bark (Wheel).

L. fortinodis Mayr. Newport, Genesee (Beq); **SI:** Richmond, May–Je (D&B); **LI:** Calverton (D&B). Rare on SI and LI. Has been found nesting in the bark of a living pitch pine (Wheel).

L. acervorum (Fab.) subsp. **canadensis** Prov. Mt. Marcy, and foot of Cliff Mt. (Beq); Mt. Whiteface, *Ds* (Beq). A rather rare boreal form nesting in bark in small colonies (Wheel).

L. schaumii Roger. **SI:** Richmond. Nests in bark of large elms and willows (Wheel).

HARPAGOXENUS Forel

H. americanus (Emery). Bronxville (Wheel).

TETRAMORIUM Mayr

T. caespitum (L.). THE LAWN ANT. NYC (Beq); Bronx Pk., *Ds* (Beq); Bronxville (Wheel); **SI:** Arrochar, New Brighton, and elsewhere (D&B); **LI:** Baldwin, Forest Pk., Rockaway Beach, and Cold Sp. Harb. (D&B). Introduced.

T. guineense (Fab.). **LI:** Brooklyn, Jan, in greenhouse; introduced (D&B).

STRUMIGENYS F. Smith

S. pergandei Emery. **LI:** Forest Pk., Brooklyn, Sep (D&B). Very rare ants, making subterranean nests, often mixed with larger species (Wheel).

TRACHYMYRMEX Forel

(These are the fungus-growing ants.)

T. septentrionalis (McC.). Milford (Ds); **LI:** Wading R., May–Je, Hauppauge, Smithtown, Selden (D&B). The colonies of two to seven spherical chambers are built only in sand, and after a few weeks in early spring are closed until after the heat of summer has passed.

SUBFAMILY DOLICHODERINAE

TAPINOMA Foerster

T. sessile (Say). Ithaca, extremely abundant; McLean; **SI:** Old Place, Tottenville, Todt Hill, and Watchogue (D&B); **LI:** Rockaway Beach, Riverhead, Yaphank, Wading R., Orient Pt., Fire I., Wyandanch, Pinelawn (D&B). One of the most abundant of ants. Nests under stones, logs, etc., mostly in open places.

T. pruinosum Roger. **LI:** Yaphank, Wyandanch, Montauk (D&B). A southern species reaching here its extreme northern limit. Forms single or clustered craters in pure white sand (Wheel).

DORYMYRMEX Mayr

D. pyramicus (Roger). **LI:** Wading R. (D&B). Forms a small crater in white sand, three or four inches in diameter (Wheel). This is probably the northern extremity of the range of this species also.

DOLICHODERUS Lund

D. mariae Forel. **LI:** Pinelawn, Riverhead, Long Beach, Wyandanch, Calverton, Yaphank, Selden, Massapequa (D&B). Forms large colonies, nesting in sandy places about the roots of grasses and bushes (Wheel). The workers are commonly met with on plants, attending aphids.

D. taschenbergii (Mayr) var. **aterrimus** Wheel. (*taschenbergii* var. *gagates* Wheel.). Upper Ausable L. (Beq); Mt. Whiteface, *Ds* (Beq); **SI:** near seashore (D&B); **LI:** Wyandanch, Calverton, Central Pk., Amagansett, Yaphank, Pinelawn, Massapequa, Coram (D&B).

D. plagiatus (Mayr). Oliverea, *Ds* (Beq); **SI:** Long Neck, Tottenville, Watchogue (D&B); **LI:** Wyandanch, Yaphank, Amagansett, Smithtown, Massapequa, West Hills (D&B). Nests in the ground in small colonies (Wheel). These workers also attend aphids.

D. plagiatus (Mayr) subsp. **plagiatus** Mayr var. **inornatus** Wheel. **SI** (D&B); **LI:** Pinelawn, Yaphank, Smithtown (D&B).

D. plagiatus (Mayr) subsp. **pustulatus** Mayr. **SI:** Tottenville (D&B); **LI:** Yaphank, Smithtown, Massapequa, Wyandanch (D&B).

D. plagiatus (Mayr) subsp. **pustulatus** Mayr var. **beutenmuelleri** Wheel. McLean (Wheel-CU); **LI:** Coram, Wyandanch, Massapequa, Farmingdale, south of Smithtown, Selden (D&B).

SUBFAMILY FORMICINAE

BRACHYMYRMEX Mayr

B. heeri Forel subsp. **depilis** Emery. Ithaca; Bronxville (Wheel); **SI:** New Springville, Ap (D&B); **LI:** Cold Sp. Harb. (D&B). Nests under stones and attends root Coccidae (Wheel).

PRENOLEPIS Mayr

(Subgenus PRENOLEPIS Mayr)

P. imparis (Say). Conesus L., *Ds* (Beq); Clinton Hgts. (Beq); Callicoon, *Ds* (Beq); White Plains, Van Cort. Pk. (Beq); **SI:** Tottenville, New Brighton, Watchogue, Long Neck, Annadale (D&B); **LI:** Amagansett, Yaphank, Calverton, Montauk, Pinelawn, Wading R., Gardiners I., Cold Sp. Harb. (D&B). Makes small crater nests in shady oak woods in soil usually containing more or less clay (Wheel).

P. imparis (Say) var. **testacea** Emery. **SI:** Tottenville (D&B); **LI:** Wading R., Amagansett (D&B). Nests only in sandy regions, where it replaces the preceding (Wheel).

(Subgenus **NYLANDERIA** Emery)

P. parvula Mayr. **SI:** Long Neck, Arrochar, Tottenville, Watchogue (D&B); **LI:** Pinelawn, Wyandanch, Central Pk., Cold Sp. Harb. (D&B). Under stones in gravelly and sunny places (Wheel).

P. longicornis (Latr.). NYC (D&B). Introduced.

LASIUS Fabricius [169]

(Subgenus **LASIUS** Fabricius) [170]

(The members of this subgenus are not exclusively subterranean in habit.)

L. niger (L.) var. **americanus** Emery. Common everywhere. McLean (Wheel-CU); Ithaca; Slide Mt. (Beq); **SI:** Arrochar, Arlington, Watchogue, Long Neck, etc. (D&B); **LI:** Flatbush, Rockaway Beach, Maspeth, Brooklyn, Yaphank, Fire I., Gardiners I., Pinelawn, Wyandanch, Jamaica, Cold Sp. Harb. (D&B). The most abundant of ants and hence of all insects. Nests indifferently in rotten wood, under bark, logs, or stones, or in soil. Cultivates root aphids, but also visits the foliage of trees and bushes in search of aphids (Wheel).

L. niger (L.) var. **neoniger** Emery. Otto; Ithaca (CU).

(Subgenus **CHTHONOLASIUS** Ruszky)

(These ants are exclusively subterranean, except for the mating flight. They cultivate root aphids and coccids [Wheel]).

L. brevicornis Emery. Ithaca; Bronxville (Wheel); **LI:** Long Beach, Yaphank (D&B).

L. flavus (L.) subsp. **nearcticus** Wheel. (*myops* Forel). Ithaca; Garrison (Ckll); **LI:** Cold Sp. Harb. (D&B). The American representative of the European *flavus*. The colonies, which are rather small, are formed under stones on hill slopes and in pastures, where the soil is rather dry and sandy (Wheel).

L. umbratus (Nyl.) subsp. **mixtus** Nyl. var. **aphidicola** Walsh. Ithaca, *Bdy* (Beq); McLean (Wheel); Cedar Hill, Albany (Beq); Richford Sps.; Bronxville (Wheel); **SI:** south shore, and Mariner's Harb. (D&B); **LI:** Gardiners I. (D&B); Bergen Beach, *VKrochow* (Beq). Populous colonies under stones, or in logs and stumps in damp shady woods (Wheel).

L. umbratus (Nyl.) subsp. **minutus** Emery. McLean, *SRobinson* (Wheel-CU); **SI:** New Springville (D&B).

(Subgenus **ACANTHOMYOPS** Mayr)

(These are also subterranean, cultivating root aphids [Wheel]).

L. interjectus Mayr. Canandaigua L. (Beq); **SI,** found many times (D&B); **LI:** Coram (D&B). Nests in old logs and stumps in open woods, and occasionally makes rough mounds, or excavates its galleries under large stones (Wheel).

L. claviger (Roger). Ithaca; Tarrytown (Beq); Bronxville (Wheel); Van Cort. Pk. (Beq); **SI:** Clove Val., Princess Bay, etc. (D&B); **LI:** Selden, Amagansett, Riverhead, Wading R., Gardiners I., Huntington, Flatbush, North Beach, Maspeth, Jamaica (D&B). Nests under stones along the margin of woods where there is plenty of warmth and moisture (Wheel).

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[169] If the Erlangen List is accepted, the name *Lasius* will be replaced by *Acanthomyops* Mayr.
[170] If the Erlangen List is accepted, the name of the subgenus Lasius will be replaced by *Donisthorpea* Morice and Durrant.

L. latipes (Walsh). **SI:** Tottenville, and elsewhere (D&B); **LI:** Selden, Yaphank, Riverhead, Rockaway, West Hills, Wyandanch, Gardiners I., Cold Sp. Harb. (D&B).

L. murphyi Forel. Bronxville (Wheel); West Farms (Angus); **SI:** St. George, New Brighton, Clove Val., Watchogue (D&B); **LI:** Rockaway, Baldwin, Cold Sp. Harb. (D&B).

FORMICA Linnaeus [171]

(Subgenus **FORMICA** Linnaeus)

F. sanguinea Latr. subsp. **aserva** Forel. Wilmington, Mt. Whiteface, *Ds* (Beq); Mt. Skylight, Cliff Mt. (Beq); Rock City, *Ds* (Beq). One of the slave-makers.

F. sanguinea Latr. subsp. **rubicunda** Emery. Ithaca (Beq); Oliverea, *Ds* (Beq); Slide Mt., *Ds* (Beq); Bronxville (Wheel); **LI:** Coram (D&B). A slave-maker, capturing *F. subsericea.* Nests under stones in grassy places along the edges of woods (Wheel).

F. sanguinea Latr. subsp. **subintegra** Emery. White Plains (Beq); Mosholu, Bronxville (Wheel); **SI:** New Brighton, Clove Val., Watchogue, etc. (D&B); **LI:** Yaphank, Half Way Hollow Hills, Riverhead, Pinelawn (D&B). Also enslaves *F. subsericea.*

F. sanguinea Latr. subsp. **subintegra** var. **gilvescens** Wheel. Tuckahoe (types). Elsewhere known only from Wis.

F. truncicola Nyl. subsp. **integra** Nyl. Keene Val., *Not* (Beq); Mt. Whiteface (Beq); Ithaca, Debruce, E. Jewett, Oliverea, *Ds* (Beq); Ashokan, *VKrochow*; High Bridge, West Farms (Angus); Mosholu (Wheel); Bronxville; **SI:** Richmond, Bradley's Road, Reed's Val., Great Kills (D&B); **LI:** Rockaway Beach, Riverhead, Yaphank, Wyandanch, Wading R., Half Way Hollow Hills, Long Beach, West Hills (D&B); Bergen Beach, *VKrochow* (Beq). Forms great colonies in piles of large stones, or in old logs or stumps, stuffing the crannies with dead grass and leaves. Prefers sunny glades or clearings in the forests of hilly regions (Wheel).

F. truncicola Nyl. subsp. **obscuriventris** Mayr. Ithaca (Beq); Saugerties, *VKrochow* (Beq); **LI:** Riverhead, Coram, Pinelawn, Wading R., Amagansett, Gardiners I., Cold Sp. Harb. (D&B). Under large stones in open woods, often banking the edges of the stones in the vegetable débris. The colonies are much smaller than those of the preceding (Wheel).

F. truncicola Nyl. subsp. **obscuriventris** var. **gymnomma** Wheel. **LI:** Cold Sp. Harb. (types).

F. difficilis Emery. Ithaca (Beq); Bronxville (Wheel); **SI:** Long Neck, Watchogue, Clove Val., etc. (D&B); **LI:** Coram, Gardiners I., Calverton, Yaphank, Selden, Orient Pt., Pinelawn, Half Way Hollow Hills, Wyandanch, Riverhead (D&B). Nests under stones, which it banks with vegetable detritus. Occurs sporadically in open woods from NY to N. Car. (Wheel).

F. exsectoides Forel. THE MOUND-BUILDING ANT OF THE ALLEGHENIES. Rock City, *Ds* (Beq); Ithaca; Slaterville (Bdy); Garrison-on-Hudson, *Ckll* (Beq); Oliverea, *Ds,* Palenville (Beq); Ramapo Mts., Bronxville (Wheel); Southfields, *Schott* (Beq); West Farms (Angus); **SI:** Richmond, Kreischerville, Annadale, Mariner's Harb., Bradley's Road, Tottenville (D&B); **LI:** Wyandanch, Amagansett, Yaphank, Wading R., Selden, Montauk, Farmingdale

[171] A revision of the ants of the genus Formica. By William Morton Wheeler. Bul. Mus. Comp. Kool., Harvard Univ., 1913, 53:379-565.

(D&B). Constructs domes three to four feet in diameter and one to two feet high, in open glades of wooded hilltops. These domes are often partly covered with growing grass.

F. fusca L. var. **fusca** L. Upper Ausable L., Cliff Mt. (Beq); Niagara Falls (Beq); McLean (Beq); Clinton Hgts. (Beq); Ramapo Mts. (Wheel). Nests under stones or logs, or in rude craters or small earthen mounds (Wheel).

F. fusca L. var. **subsericea** Say. Wilmington, *Ds* (Beq); Portageville, *Ds* (Beq); Ithaca, Dryden L., Danby Hills (Beq); McLean (Bdy-CU); Greenville (Wheel); Garrison-on-Hudson (Ckll); Saugerties, *VKrochow* (Beq); Kiamesha, *Brues* (Beq); Debruce, *Ds* (Beq); Mosholu, Bronxville (Wheel); White Plains (Beq); Central Pk., NYC, *VKrochow* (Beq); **SI,** very common (D&B); **LI:** Bergen Beach, *VKrochow* (Beq); Flatbush, Central Pk., Wading R., Gardiners I., Wyandanch, West Hills, Amagansett, Yaphank, Flushing, Cold Sp. Harb. (D&B). A very abundant ant. Prefers open sunny places, and may construct mounds or build under stones, etc. The host of many slave-making species.

F. fusca L. var. **gelida** Wheel. Cliff Mt., Redfield Mt. (Beq). "The most stenothermal and alpine of all our forms of *fusca.* Nests in rather small colonies under stones or in logs in woods at high altitudes, just below timberline" (Wheel).

F. fusca L. var. **argentea** Wheel. Essex Co; Gloversville; Ithaca. Belongs to the colder part of the Transition zone (Wheel).

F. fusca L. var. **subaenescens** Emery. Ithaca, *Bdy* (Beq); Bedford (Wheel). A rare species, nesting under logs and stones in shady woods.

F. neogagates Emery. Niagara Falls, Ithaca (Beq); Kiamesha, *Brues* (Beq); **LI:** Gardiners I., Cold Sp. Harb. (D&B). In small colonies under stones, on hills at an altitude of 1000 ft. or more (Wheel).

(Subgenus **NEOFORMICA** Wheeler)

F. pallidefulva Latr. subsp. **pallidefulva.** Ithaca; White Plains (Beq); Bronxville (Wheel). A southern form, very rare as far north as this State.

F. pallidefulva Latr. subsp. **schaufussi** Mayr. Ithaca, Karner (Beq); W. Nyack (Beq); Bronxville, Mosholu (Wheel); **SI,** common (D&B); **LI:** Pinelawn, Amagansett, Yaphank, Wading R., Wyandanch, Gardiners I. (D&B). A common species, nesting in small colonies under stones or in small obscure mound-nests in sunny and grassy fields.

F. pallidefulva Latr. subsp. **schaufussi** Mayr var. **incerta** Emery. Niagara Falls (Wheel); Albany, White Plains (Beq); Tuckahoe (Wheel); Bronxville (Wheel); West Farms (Angus); **SI:** Todt Hill (D&B); **LI:** Wyandanch, Hempstead, Smithtown (D&B). Common in the same situations as the preceding (Wheel).

F. pallidefulva Latr. subsp. **nitidiventris** Emery. Clifton Sps.; Ithaca; W. Danby; Mosholu, Bronxville (Wheel); **SI** (D&B); **LI:** Amagansett; Calverton, Southold, Gardiners I., Montauk, Cold Sp. Harb. (D&B). Habits similar to those of the preceding species.

F. pallidefulva Latr. subsp. **nitidiventris** var. **fuscata** Emery. Bronxville (Wheel); **SI:** Todt Hill (D&B); **LI:** Wyandanch, Amagansett, Gardiners I., Central Pk., Montauk (D&B). Rarer than any of the other forms, nests only in woods, usually in hilly country (Wheel).

POLYERGUS Latreille

P. lucidus Mayr. THE SHINING SLAVE-MAKER. Ithaca, very rare (Bdy); White Plains, W. Nyack (Beq); Bronxville (Wheel); **LI:** Long Pond, Wading R. (D&B); Pinelawn; Selden. Aug–Sep. Enslaves *Formica schaufussi.*

CAMPONOTUS Mayr [172]

C. castaneus (Latr.). West Farms (Angus); **SI,** Je (D&B); **LI:** Central Pk. (D&B). Nests under stones and logs in small colonies.

C. castaneus (Latr.) subsp. **americanus** Mayr. Conesus L., *Ds* (Beq); Ithaca; Norton's Landing, Cayuga L. (SmHH); Ft. Montgomery, *Schott* (Beq); **SI:** New Brighton, and many other places (D&B); **LI:** Wyandanch, Yaphank, Half Way Hollow Hills, Wading R., Melville, Rockaway Beach, Pinelawn, Gardiners I., Cold Sp. Harb. (D&B).

C. herculeanus (L.) var. **whymperi** Forel. Cliff Mt., 3000 ft. (Beq).

C. herculeanus (L.) subsp. **pennsylvanicus** DeG. THE CARPENTER ANT. Saranac L., Big Moose, Keene Val., Oswego (Beq); Turin, *Lucy Armstrong* (Beq); Batavia, Portage, *Ds* (Beq); Rock City, *Ds* (Beq); Ithaca (Beq); McLean (Bdy); Nassau, Cedar Hill (Beq); Oliverea, Slide Mt., *Ds* (Beq); Garrison-on-Hudson (Ckll); White Plains (Beq); W. Nyack, *Ols* (Beq); Bronxville (Wheel); West Farms (Angus); **SI,** common (D&B); **LI:** Central Pk., Yaphank, Fire I., Smithtown, Gardiners I. Southold, Huntington Sps., Cold Sp. Harb. (D&B). Abundant in all woodlands, nesting in solid dead wood.

C. herculeanus (L.) subsp. **pennsylvanicus** DeG. var. **ferrugineus** Fab. Mosholu, Bronxville (Wheel); Ft. Montgomery, *Schott* (Beq); West Farms (Angus); Manhattan, NYC, *Ds* (Beq); **SI:** Watchogue, Clove Val. (D&B); **LI:** Richmond Hill, Jamaica, Wyandanch, Yaphank, Amagansett, Coram, Melville, Wading R., Southold, Cold Sp. Harb., Half Way Hollow Hills, Smithtown (D&B); Forest Pk., *VKrochow* (Beq). Of similar habits to the preceding, but less common (Wheel).

C. herculeanus (L.) subsp. **pennsylvanicus** DeG. var. **noveboracensis** Fitch. L. Tear, Cliff Mt. (Beq); Keene Val., Elizabethtown, Saranac L., *Ds,* Boonville, *Titus* (Beq); Wilmington, *Ds* (Beq); Plattsurg (Beq); Orleans Co, Pulaski, *Ds* (Beq); Batavia, Genesee Co (Beq); Rock City, *Ds* (Beq); Potter Swamp (Beq); Ithaca (Beq); Tarbel, W. Danby, McLean, *Ds* (Beq); Karner, Cedar Hill (Beq); Oliverea, Callicoon, Slide Mt., E. Jewett, *Ds* (Beq); West Pt., Debruce, *Ds* (Beq). Of similar habits to the two preceding species.

C. caryae (Fitch) (*fallax* Nyl. var. *nearcticus* Emery). Wilmington, *Ds* (Beq); Honeoye Falls, *Ds* (Beq); Niagara Falls, *Ds* (Beq); Batavia, *Ds,* Wyoming, *Ds* (Beq); Taughannock, Ithaca, *Ds* (Beq); Ithaca (Beq); Albany (Beq); White Plains, *Bno* (Beq); Valhalla, *Schott* (Beq); West Farms (Angus); Bronx Pk. (Beq); **SI:** Long Neck, Tottenville, etc. (D&B); **LI:** Brooklyn, Queens, Wading R., Yaphank, Gardiners I., Riverhead, Pinelawn, Amagansett, Orient Pt., Central Pk., Half Way Hollow Hills, Cold Sp. Harb. (D&B). Wheeler says that this ant seems to be associated with pine trees.

C. caryae (Fitch) var. **minutus** Emery. **SI:** Long Neck, Clove Val., etc. (D&B); **LI:** Melville, Jamaica, Central Pk., Massapequa, Yaphank, Amagansett, Wading R., Coram (D&B). Nests in dead twigs of oak.

C. caryae (Fitch) var. **pardus** Wheel. White Plains, Mosholu (Wheel); Bronxville (Wheel); West Farms (Angus); **LI:** Queens, Jamaica (D&B).

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[172] The North American ants of the genus Camponotus Mayr. By William Morton Wheeler. Ann. N. Y. Acad. Sci., 1910, 20: 295–354.

FAMILY **BETHYLIDAE**

PARASIEROLA Cameron

P. cellularis (Say). Spring Lake, Jl 23 (Fouts-CU); Ithaca (Fouts-CU).

PLASTANOXUS Kieffer

P. chittendeni (Ashm.). Ithaca, *Chitt* (type-US). From *Cis fuscipes* Melsh. in fungus.

PRISTOCERA Klug

P. armifera (Say). White L., *Zab* (AM); **LI**: Flatbush, *Zab* (AM); Yaphank, May 8, *Ds* (Beq).

FAMILY **VESPIDAE** [173]

Compiled by JOSEPH BEQUAERT

SUBFAMILY **ZETHINAE**

ZETHUS Fabricius

Z. spinipes Say. **LI**: Gardiners I., *Ds*; Cold Sp. Harb., *Brues*. The Gardiners I. specimen appears to belong to var. *substrictus* Hald.

SUBFAMILY **EUMENINAE**

EUMENES Latreille

E. fraterna Say. New Russia, *Bdy* (CU); Trenton Falls, *Leon, Fbs* (CU); Spring Lake, *Bdy* (CU); Ithaca, McLean (CU); Manlius, *SmHH* (CU); Oliverea; White Plains; **SI**; **LI**: Long Beach; Central Pk.; Gardiners I.; Orient Pt.; Springs; Hempstead Plains, Wyandanch, *Schott*; Wading R., *Eng*; West Hills, Riverhead, Rockaway Beach, Yaphank, *Ds*.

E. globulosa Sauss. New Russia, *Bdy* (CU); Keene Val., *Not*; Potsdam; Manlius, *SmHH* (CU); Ithaca (CU); McLean; Oliverea (Beq).

E. verticalis Say. **LI**: Rockaway Beach, *Schott*.

PACHYMENES Saussure

P. symmorphus (Sauss.). Ithaca, *Bdy*; White Plains; W. Nyack.

MONOBIA Saussure

M. quadridens (L.). White Plains; **SI**, *Ds*; **LI**: Wading R., *Eng*; Orient Pt.; Aqueduct, *Eng*; Wyandanch, *Schott*; Sands Pt., *Bs*; Flushing, *Schott*; Gardiners I.; Yaphank; Farmingdale, *Morrow* (CU).

ANCISTROCERUS Wesmael

(Subgenus **ANCISTROCERUS** Wesmael)

A. albophaleratus (Sauss.). Keene Val., *Not*; Potsdam; Cranberry L., *Drk*; Ithaca, *Bks*; Oliverea.

A. birenimaculatus (Sauss.). **LI**: Massapequa, *Ds*; Flushing, *Bell*.

A. campestris (Sauss.). Cattaraugus (CU); Ithaca; **SI**, *Ds*.

A. capra (Sauss.). New Russia, *Bdy*; Wilmington, *Ds*; Keene Val., *Not*; Indian L., *Brb*; Cranberry L., *Drk*; Potsdam; Honeoye Falls (CU); Cattaraugus

[173] All records in this family not otherwise indicated have been verified by Dr. Bequaert.

(CU); Elmira, *Diven*; Ithaca, *Bdy*; McLean (CU); Manlius, *SmHH* (CU); Rhinebeck, *Cy* (CU); Big Ind. Val.; E. Jewett; Oliverea; Debruce, *Ds*; Ft. Montgomery, *Schott*; Southfields, *Schott*; West Pt., *Ds*; **SI**; **LI**: Cold Sp. Harb.; Long Beach; Gardiners I.; Sea Cliff, *Bks*; Rockaway Beach, Long Pond, Wading R., Aqueduct, *Ds*.

A. catskillensis (Sauss.). Keene Val., *Not*; Potsdam; Wilmington; Manlius, *SmHH*; Portageville; L. Keuka; Ithaca; McLean; West Pt., *Ds*; Rocky Glen; Oliverea; W. Nyack; **LI**: Riverhead; Cold Sp. Harb.; Jamaica; Sea Cliff, *Bks*; Forest Hills.

A. parietum (L.). Ithaca; **LI**: Flatbush, *Schott*.

A. pertinax (Sauss.). Described from New York State. Unknown to me. H. de Saussure has doubtfully synonymized it with *A. tigris*. (Beq.)

A. spinolae (Sauss.). **LI**: Long Beach; Yaphank, *Ds*.

A. tigris (Sauss.). Keene Val., *Not*; New Russia, *Bdy*; Manlius, *SmHH*; Albion; Portage, *Ds*; Rock City; Otto; Ithaca, *Bdy*, *Morse*; Taughannock; Homer; McLean; Center Lisle; Oliverea; Kaaterskill High Peak, *Morse*; West Pt., *Ds*; Ft. Montgomery, *Ds*; Rhinebeck, *Cy*; W. Nyack; **SI**, Ds; **LI**: Springs; Gardiners I.; Cold Sp. Harb.; Central Pk.; Riverhead; Long Pond, Wading R., Pennequid Barrens, *Ds*.

A. unifasciatus (Sauss.). Keene Val., *Not*; Mt. Marcy; Otto (CU); Ithaca, *Bdy*; Spring Lake, *Bdy* (CU); Kinderhook; Nyack, *Ds*; **SI**: Eltingville, *Ds*; **LI**: Cold Sp. Harb.; Orient; Roslyn, *Bks*; Sea Cliff, *Bks*.

A. waldenii (Vier.). Ithaca, *Bdy*; Manlius, *SmHH* (CU); W. Danby; Ft. Montgomery, *Schott*; Ramapo, *Ds*.

(Subgenus **PARANCISTROCERUS** Bequaert)

A. clypeatus (Robt.). Otto; Rhinebeck, *Cy*; **LI**: Long Pond, Wading R., *Ds*.

A. fulvipes (Sauss.). **SI**: Emerson Hill, Jl, *Ds* (Beq).

A. proximus (Sauss.). Rock City; Ithaca; W. Danby; Caroline to Harford; Thousand Isls.; Rocky Glen; Rhinebeck, *Cy*; W. Nyack; Ft. Montgomery, *Ds*; **SI**: Tottenville, *Ds*; **LI**: Deep Pond, Long Pond, Wading R., *Ds*; Yaphank, *Ds*; Gardiners I.; Springs; Orient; Central Pk.

SYMMORPHUS Wesmael

S. albomarginatus (Sauss.). Ausable L.; Potsdam, *Bdy*; Slaterville, *Bdy*; Ithaca; Caroline to Harford; Mud Cr.; Oliverea, *Ds*; Ft. Montgomery, *Schott*.

S. canadensis (Sauss.). Otto; Ithaca.

S. debilis (Sauss.). Keene Val., *Not*; Mt. Whiteface; Ithaca, *Bdy*; Mud Cr.; Caroline to Harford; McLean (Bdy-CU); Spencer; W. Nyack; **LI**: Gardiners I.

S. philadelphiae (Sauss.). Rock City; Ithaca; Slaterville to Caroline; **SI**: Ft. Wadsworth, *Ds*.

S. walshianus (Sauss.). Ithaca, *Bdy*.

ODYNERUS Latreille

(Subgenus **RYGCHIUM** Spinola)

O. arvensis Sauss. Cattaraugus; **SI**.

O. boscii Lep. NY State, according to H. de Saussure. I have seen it from N.J. (Beq).

O. dorsalis (Fab.). White Plains; Inwood, NYC, Jl, *Schott*; **LI:** Brooklyn, *Eng*; Canarsie, *Wiegmann*; Sands Pt., *Ds*; Flatbush, *Eng*; Jamaica, *Schott*.

O. foraminatus Sauss. Potsdam; Peru; New Russia; Manlius, *SmHH*; Cattaraugus; Spring Lake; Ithaca, McLean, *Bdy*; Spencer; Norton's Landing, Cayuga L., *SmHH*; Ft. Montgomery, *Schott*; White Plains; W. Nyack; Inwood, NYC, *Schott*; **SI:** Great Kill, *Ds*; Tottenville; **LI:** Flushing; Gardiners I.; Mastic; Aqueduct, *Ds*; Yaphank, Wading R., *Ds*; Orient; Cold Sp. Harb.

O. hidalgi Sauss. **LI:** Orient Pt.; Cold Sp. Harb.

O. leucomelas Sauss. Caroline to Harford; Coy Glen, Ithaca, Je, *Ds*; White Plains.

O. megaera Lep. **SI:** Clove Val., *Ds*.

(Subgenus **STENODYNERUS** Saussure)

O. anormis (Say). Manlius, *SmHH*; Cattaraugus; Ithaca; **LI:** Wyandanch, *Schott*.

O. conformis Sauss. NY, according to H. de Saussure. Unknown to me (Beq).

O. illinoensis Robertson. Ithaca; West Pt., *Ds*; White Plains.

O. pedestris Sauss. Peru; Manlius, *SmHH*; Ithaca; Nyack, Ft. Montgomery, *Ds*; W. Hebron, *Ds*; White Plains; **SI**, *Ds*; **LI:** Gardiners I.; Cold Sp. Harb.; Central Pk.; Orient; Flushing, *Eng*.

O. pennsylvanicus Sauss. NY, according to H. de Saussure. Unknown to me (Beq).

O. perennis Sauss. NY, according to H. de Saussure. Unknown to me (Beq).

O. vagus Sauss. NY, according to H. de Saussure. I have seen it from N.J. and Vt. (Beq).

O. zendaloides Robertson. **LI:** Mastic, *Nichols*; Cold Sp. Harb., *Ds*.

(Subgenus uncertain)

O. mohicanus Sauss. Described from NY by de Saussure. Unknown to me (Beq).

SUBFAMILY **POLISTINAE**

POLISTES Latreille

P. canadensis (L.) var. **annularis** (L.). Ft. Montgomery, *Schott*; Hillburn, *Schott*. A specimen was taken years ago by Ds on **SI**, but I have never seen this species near NYC (Beq).

P. pallipes Lep. (*metricus* Say, *variatus* Say). Keene Val., Castile, *EABradley*; Taughannock, *Guerlac*, *Bdy*; Ithaca, abundant, *Bdy*; Oliverea; Yorktown Hgts., *Ols*; Southfields, *Schott*; W. Nyack; NYC; **SI; LI:** Orient Pt.; Gardiners I.; Wyandanch, Little Neck, *Schott*; Mastic, *Nichols*; Bay Shore, Kissena Pk., *Ols*.

SUBFAMILY **VESPINAE**

VESPA Linnaeus

(Subgenus **VESPA** Linnaeus)

V. crabro L. EUROPEAN HORNET. Rye, *Felt*; Poughkeepsie; Nyack; W. Nyack; White Plains, *Bno*; Mahopac; Brewster; Yonkers; West Farms, *Edw*; Van Cort. Pk.; **SI**, *Ds*; **LI:** Brooklyn; Jamaica; Flatbush; Flushing; Bay Shore; Mineola; Far Rockaway. Introduced from Europe; gnaws twigs of various

trees, especially birch, and is sometimes injurious to lilac. Generally selects a hollow tree or an attic in which to nest.

(Subgenus **VESPULA** Thomson)

V. carolina L. Pelham Parkway; **SI,** Je 3, *Ds*; **LI:** Rockaway Beach, Sep 20, *Schott.* An austral species, practically reaching its northern limit in N.J.

V. maculifrons Buy. (*communis* Sauss.). Upper Ausable L.; New Russia, *Bdy*; Cranberry L., *Drk*; Keene Val, *Not*; Ithaca, Clifton Sps. (CU); McLean, *Bdy* (CU); Spencer (CU); Taughannock, *Guerlac* (Bdy); Shelving Rock Mt., L. George, *Leon*; Oliverea; W. Nyack; Yorktown, *Ols*; Hillburn, *Schott*; Van Cort. Pk.; **LI:** Rockaway Beach, Bay Shore, *Ols*; Jamaica; Flushing; Gardiners I.; Port Jefferson; Coram; Queens, *Schott*; Wading R.; Riverhead. An extremely common wasp, known as *yellow-jacket.*

V. vulgaris L., *V. germanica* Fab., and *V. occidentalis* Cress. do not occur in the eastern US. All specimens under those names in collections are *V. maculifrons.* Bequaert writes: "I have found underground nests of both *V. communis* and *V. diabolica*; they are generally not at a great depth, and when the cavity chosen is small, part of the nest eventually is more or less exposed; often it is merely covered above by dry leaves or dense grass. Of both species I have seen nests in a hole of a dead tree stump."

V. consobrina Sauss. New Russia, *Bdy*; Saranac L., Axton (M&H); Moose L.; Upper Ausable L.; Keene Val., *Not*; South L.; Lowville, *Ds*; Mt. Skylight; McLean; Shelving Rock, L. George, *Leon*; Oliverea; Debruce, *Ds*; Ft. Montgomery, *Schott*; Stony Pt. Nests under the ground (Beq).

V. vidua Sauss. Cliff Mt., Essex Co; Ithaca (CU); New Baltimore; Ft. Montgomery, *Schott*; W. Nyack, *Ds*; **SI; LI:** Huntington, Wyandanch, *Schott*; Jamaica; Bay Shore, *Ols*; Central Pk.; Merrick, *Eng*; Coram, *Ds*; Wading R., Yaphank, *Ds.* Not a common species.

(Subgenus **DOLICHOVESPULA** Rohwer)

V. arctica (Roh.) (*borealis* Lewis). Keene Val., *Not*; Castile, *EABradley*; Ithaca, Newfield; Oliverea; **SI,** *Ds.* Lives as an inquiline in the nest of *V. diabolica.*

V. diabolica Sauss. Upper Ausable L.; Keene Val., *Not*; Manlius, *SmHH*; N. Fair Haven (CU); Geneva; Castile, *EABradley*; Conesus L., *Ds*; Ithaca; McLean; Newfield; Norton's Landing, Cayuga L., *SmHH*; W. Danby (CU); Oliverea; Ft. Montgomery, *Schott*; Nyack; Inwood, NYC, *Schott*; **SI,** *Ds*; **LI:** Cold Sp. Harb. A very common species, known as *yellow-jacket.* For nesting habits, see under *V. maculifrons.* But *diabolica* also builds aerial nests similar to those of *V. maculata,* often about the eaves of buildings.

V. maculata L. Axton (M&H); New Russia, *Bdy*; Upper Ausable L.; Keene Val., *Not*; Ithaca; McLean; Otto; L. George; Oliverea; Yorktown Hgts., *Ols*; **SI,** *Ds*; **LI:** Little Neck, Wyandanch, *Schott*; Hempstead, *Ols*; Flushing; Cold Sp. Harb.; Gardiners I.; Jamaica; Queens, *Schott.* Probably occurs at all points in the State and is everywhere abundant. Builds strictly aerial nests in trees, under porches, in barns, etc. (Beq).

V. norwegica Fab. Mt. Marcy, 3000 ft.; Upper Ausable L.; Keene Val., *Diven*; Oliverea. Generally builds a nest similar to that of *diabolica,* but placed in low, dense bushes, four to five inches above the ground (Beq).

(Subgenus **PSEUDOVESPA** Schmiedeknecht)

V. austriaca Panz. **SI,** *Hine.*

Superfamily SPHECOIDEA

FAMILY AMPULICIDAE

So far as their habits are known, the species of this family utilize crevices or crannies of some sort for their nests, stocking them with imperfectly paralyzed cockroaches.

RHINOPSIS Westwood

R. canaliculata (Say). **LI:** Central Pk., Aug 13, 1913, Yaphank, Sep 4, 1910, *Ds* (Beq). An extremely rare insect.

FAMILY DRYINIDAE

BOCCHUS Ashmead

B. atriceps Brues. Mosholu, Jl 25 (Bno) (type); **LI:** Flatbush, Jl 27, *Zab* (AM).

PSILODRYINUS Kieffer

P. nigrellus (Brues). **LI:** Parkville, *Bt* (type-AM).

GONATOPUS Ljungh

G. flavifrons Ashmead. Albany, *EPV* (type-US).
G. contortulus Patton. Black Br., Je 21 (Mues-CU).

CHELOGYNUS Haliday

C. henshawi Ashmead. Ithaca, Je 28, *Yuasa* (Bdy-CU).
C. vivariensis Bdy. McLean, Jl 26, 1925, *SRobinson* (type-CU).
C. xanthothorax Bdy. Taughannock Falls, *Guerlac&Bdy* (type-CU); Penn Yan, Jl 12, 1925, *Babiy* (paratype-CU).

FAMILY SPHECIDAE [174]

SUBFAMILY LARRINAE

Tribe ASTATINI

ASTATA Latreille

(The members of this genus burrow in the ground and provision their nests with Pentatomidae.)

A. unicolor Say. Manlius, Sep 20, *SmHH* (Cress-CU); Honeoye Falls, Jl 23 (Bdy-CU); Albion (Bdy-CU); Canandaigua L., Je (NYS); Ithaca, Jl 14 (Bdy-CU); Slaterville (*Bdy*-CU); Karner, Sep (NYS); Nyack, Mosholu (AM); Pelham Bay Pk., Aug 20 (Bdy-CU); **LI:** Queens, Jl 21 (Schott); Cold Sp. Harb., Fishers I. (AM).

A. bicolor Say. Rochester Jct., Jl 15 (Bdy-CU). A southern species.

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[174] The manuscript for this family was submitted to Messrs. Banks, Bequaert, and Rohwer, who added many records. H. T. Fernald furnished records in the Sphecinae, and is responsible for the nomenclature and most of the records in the genus Sphex.

Tribe **LARRINI**

(The members of this tribe burrow in sandy soil, and provision their nests with Orthoptera. A few small species build nests in brambles.)

LARRA Fabricius

L. analis Fab. "NY" (Fox). A southern species.

NOTOGONIDEA Rohwer

N. argentata (Pal. de Beauv.). Ithaca, Jl 16 (Bdy-CU). Occurs from the Atlantic to the Pacific, but chiefly southern. Provisions its nest with crickets.

N. nigripennis (Fox) (*aequalis* Fox). "NY", type.

LARROPSIS Patton

L. distincta (Sm.). Ithaca, Aug 9–Sep 12 (Bdy-CU); Oliverea, W. Nyack (Beq); **SI** (Beq); **LI:** Springs, Cold Sp. Harb., Huntington, Gardiners I. (Beq); Forest Hills, Sep 11 (Bdy-CU); Wyandanch, Sep 17 (Schott).

TACHYTES Panzer

T. mandibularis Patton. Ithaca, Jl 14 (Bdy-CU); White Plains (Beq); **SI** (Beq); **LI:** Bay Shore, Wyandanch, Rosedale, *Schott* (Beq). Chiefly austral.

T. breviventris Cress. Forest Hills, Sep 11 (Bdy-CU). An austral species.

T. columbiae Fox. Ithaca, Aug 1 (Bdy-CU). An austral species.

T. propinquus Rohw. Van Cort. Pk. (paratype-Milwaukee Mus.).

T. calcaratiformis Rohw. Van Cort. Pk. (types-Milwaukee Mus.).

TACHYSPHEX Kohl

T. tarsatus (Say). Ithaca, Jl 9–Sep 21 (Bdy-CU); **LI:** Orient (Beq).

T. terminatus (Sm.). Ithaca, Aug–Sep 8 (Bdy-CU); Norton's Landing, on Cayuga L., Jl 1–14, *SmHH* (Cress-CU); Union Sps., Sep 20, *And* (Bdy-CU); Trenton Falls, *SaundersWW* (F.Sm-Brit. Mus.); Rochester Jct., Je 16, *Leon* (Bdy-CU); **LI:** Pennequid Barrens, Orient (Beq). Provisions its nest with small and medium-sized nymphs of grasshoppers, especially of *Syrbula admirabilis* Uhl., according to the Raus.

Tribe **DINETINI**

(The habits of these species are similar to those of the preceding tribe.)

SILAON Piccioli

S. niger Roh. **LI:** Yaphank, *Ds* (Beq). Nests in elder stems according to the Raus.

SOLIERELLA Spinola

S. plenoculoides (Fox) (*Niteliopsis*). "NY", type.

PLENOCULUS Fox

P. allanticus Vier. **LI:** Cold Sp. Harb. (Beq).

LYRODA Say

L. subita (Say). Keene Val. (Beq); Piseco L., Aug (NYS); Ithaca, Je 27–Sep 20, common (Bdy-CU); White Plains (Beq); **LI:** Jamaica (Beq). Provisions its nests with crickets of the genus Nemobius.

SUBFAMILY TRYPOXYLONINAE

TRYPOXYLON Latreille

(The species of this genus provision their nests with spiders. Most species build in twigs and stems, but some burrow in posts; one species builds clay nests; another utilizes deserted nests.

T. albopilosum Fox. Ithaca, Jl 19–Aug 14 (Bdy-CU); Albany, Aug (NYS); **SI,** Sep 26, *Ds* (Ashm); **LI:** Huntington, Jl 9 (Schott); Sea Cliff, Jl 29–Aug 25 (Bks); Greenport, Flatbush, *Eng* (Beq); Rosedale, *Schott* (Beq); Yaphank, *Ds* (Beq); Gardiners I. (Beq).

T. bidentatum Fox. Essex Co., Wilmington, Aug 20–25 (Bdy-CU); Shelving Rock Mt., Sep 2 (Bdy-CU); Ithaca, May 30 (Bdy-CU); McLean, Aug, *SRobinson* (Bdy-CU); **LI:** Sea Cliff (Bks); Orient (Beq). An essentially Canadian species.

T. carinatum Say. **LI:** Sea Cliff (Bks).

T. clavatum Say. Ithaca, Aug 18 (Bdy-CU); Albany, Jl (NYS); West Farms (Pck); **SI,** *Ds* (Beq); **LI:** Cold Sp. Harb., Wading R. (Beq); Huntington, Brookhaven, *Schott* (Beq). Utilizes the abandoned nests of mud-daubers, remodeling, partitioning, and resealing them. Can also burrow into wood and make its own nests, according to the Raus.

T. excavatum Sm. "NY" (Fox).

T. frigidum Sm. Keene Val., *Not* (Beq); Old Forge, Jl, Newport, Jl, Ilion, Jl, Karner, May, *Yg* (NYS); Ithaca, common, Je 10–Aug 4, Slaterville (Bdy-CU); Norton's Landing, on Cayuga L., *SmHH* (Cress-CU); McLean, Aug 20–31, *SRobinson* (Bdy-CU); W. Nyack (Beq); West Farms (Angus), reared from stems of Syringa; **LI:** Sea Cliff (Bks); Cold Sp. Harb., Central Pk., Gardiners I. (Beq). Very common inhabitant of elder stems.

T. politum Say (*albitarse* auctt.). Karner, *Ds* (Beq); Clinton Hgts., Ap (NYS); **SI,** *Ds* (Ashm). A common austral species. This species builds large "pipe-organ" nests, consisting of parallel tubes of mud attached to walls, etc., and provisions them with spiders.

T. rubrocinctum Pck. Honeoye Falls, Je 27, *Leon* (Bdy-CU); Ithaca, Jl 14–Aug 30; W. Nyack (Beq); **SI,** *Ds* (Ashm); **LI:** Sea Cliff (Bks); Gardiners I. (Beq).

SUBFAMILY SPHECINAE

CHLORION Latreille [175]

(The species of this genus burrow in the ground and store their nests with grasshoppers. They are large and handsome wasps and are common visitors of flowers during the late summer.)

[175] The digger-wasps of North America and the West Indies belonging to the subfamily Chlorioninae. By Henry T. Fernald. Proc. U. S. Nat. Mus., 1906, **31**: 291–423.

(Subgenus **CHLORION** Latreille)

C. cyaneum Dahlbom subsp. **aerarium** Patt. **SI,** Jl, *Ds* (Beq); **LI:** Flatbush, Aug 2, *Zab* (Bdy-AM); Wading R., *Ds* (Beq); Cold Sp. Harb., Jamaica, *Ds* (Beq).

(Subgenus **PALMODES** Kohl)

C. dimidiata (DeG.) (*abdominalis* Cress.). Ludlowville (Fern). An austral species.

(Subgenus **PRIONONYX** Dahlbom)

C. atratum (Lep.). Dansville, Sep 10 (Fern-CU); Cattaraugus, Sep 11 (Bdy-CU); New Baltimore, Nyack (AM); West Farms, *Angus* (Fern); **SI,** Jl 29, *Ds* (Beq); **LI:** Gardiners I. (Beq); Cold Sp. Harb., Fishers I. (AM); Southold, Sep 6, *Ds* (Beq). Common and generally distributed over the US from Me. and Canada southward and westward.

C. bifoveolatum (Tasch.). Ithaca, Je–Jl (Fern-CU); **SI** (Beq); **LI:** Flushing (AM); Rockaway, *Ds* (Beq); Sea Cliff (Fern-CU); Orient (Beq). A widely distributed common southern species, extending northward well into NY and Mass.

(Subgenus **ISODONTIA** Patton)

C. macrocephala (Fox) (*aztecum* [Sauss.]). Manhattan I., Sep 2, *Ds* (Beq); **LI:** Flatbush, Jl 30, *Zab*, Yaphank, Jl 12 (Bridwell-AM). A scarce austral species, not known from north of LI.

C. auripes Fernald. New Baltimore, NYC (Bridwell-AM); White Plains (Beq); Nyack, West Farms, *Angus* (Fern); **SI** (Beq); **LI:** Flatbush, Cold Sp. Harb. (Bridwell-AM). A rather common austral species, not known from north of the Catskills.

C. harrisii Fern. Ogdensburg, White L. (Bridwell-AM); Rochester Jct., Jl 4, *Leon* (Bdy-CU); Long L., Aug, *Felt* (NYS); Canandaigua L., Jl, Karner, Je, *Felt* (NYS); L. George (Fern); Ithaca, Jl 22 (CU), Jl 19, 1887 (Fern); White Plains (Beq); New Baltimore, Nyack, West Farms (Bridwell-AM); **LI:** Flatbush, Cold Sp. Harb. (Bridwell-AM); Flatbush, Cold Sp. Harb., Orient, Gardiners I., Wyandanch (Beq).

(Subgenus **AMMOBIA** Billberg)

C. icheumoneum (L.). Keene Val. (Beq); New Russia, Aug 18 (*Bdy*-CU); Albany, Jl, *Felt* (NYS); New Baltimore, Crugers, L. George, Nyack, Carmel, West Farms, Mosholu (AM); White Plains (Beq); **SI,** Jl–Aug, *Ds* (Beq); **LI:** Cold Sp. Harb., Flushing (AM); Fishers I. (NYS); Springs, Jamaica, Rosedale, Orient, Gardiners I. (Beq). Distributed over nearly the entire US, from Canada southward and also over North America. More abundant in the Austral zone and scarce in the Transition zone.

C. pennsylvanicum (L.). Karner, Sep, *Felt* (NYS); Ramapo Mts., West Farms, Mosholu (AM); **SI:** Rossville, *Ds* (Beq); **LI:** Fishers I. (AM); Gardiners I., Aqueduct, Flushing (Beq).

SPHEX Linnaeus

(The members of this genus are common flying along roads, paths, and bare ground, in which they nest. They store their burrows with caterpillars. The habit of some of using a pebble as a mallet for pounding down the soil on their burrows, has drawn widespread attention to them.)

(Subgenus **SPHEX** Linnaeus)

(*Ammophila* Kirby)

S. arvensis (Dahlb.). Keene Val. (Beq); Wilmington; Mt. Marcy (Beq); Piseco L. (Fern); Elk L. (Fern); Long L., L. Pleasant, Stony I., White L., Oswego, Otto, Clifton Sps., Ithaca, L. George (all Fern); Karner; Oliverea (Beq); Van Cort. Pk. (Fern,Beq); **SI** (Beq); **LI:** Forest Pk. (Fern); Orient (Beq); Long Beach (Beq). This species usually goes as *urnarius* Klug. Present indications are that *urnarius* and *inepta* Cress. may be synonyms of *arvensis,* and that among the above records may be included a second valid species very similar to *arvensis,* to which none of these names can be properly applied (Fern). May–Sep.

S. pictipennis (Walsh). Ithaca (Fern); **SI** (Beq); **LI:** Farmington (Fern); Rockaway (Beq). *S. extremitata* has been included among these records as a probable synonym, but there is a possibility of there really being two species here (Fern). Jl–Oct.

S. procerus (Dahlb.). Keene Val. (Beq); Oliverea (Beq); **LI:** (Fern); Wyandanch (Beq).

S. aureonotatus (Cam.). Keene Val., *Not* (Beq); Ithaca (Fern); Oliverea (Beq); **LI:** Roslyn (Fern); Gardiners I., Springs, Cold Sp. Harb. (Beq). Jl–Aug. This species has usually, but incorrectly, been determined as *abbreviatus* Fab.; sometimes as *gracilis* St. Farg. (Fern).

S. nigricans (Dahlb.). Evidently generally distributed (Fern). Ithaca, Binghamton, Mosholu (Fern); White Plains (Beq); **SI** (Beq); **LI:** Cold Sp. (Fern); Jamaica (Fern,Beq); Sea Cliff (Fern); Orient (Beq). Aug–Oct.

S. argentatus (Hart). Albany, Je (Fern-NYS); Ithaca, Sep (Fern-CU); **LI:** Far Rockaway Beach, Aug, *Snn* (Fern).

(Subgenus **PODALONIA** Spinola)

(*Psammophila* Dahlbom)

S. violaceipennis (Lep.). Mt. Whiteface, Aug 22–24, New Russia, Aug 18 (Fern); Keene Val. (Beq); Taughannock, Jl 14 (Fern); **LI:** Mastic, Orient (Beq).

S. luctuosa (Sm.). Keene Val., *Not* (Beq); Norton's Landing, Cayuga L., *SmHH* (Fern-CU).

SCELIPHRON Klug

(These are the well-known mud-daubers, which plaster their clay nests over walls and ceilings, provisioning them with spiders.)

(Subgenus **SCELIPHRON** Klug)

(*Pelopaeus* Latreille)

S. coementarium (Dru.). THE BLACK-AND-YELLOW MUD-DAUBER. Common and generally distributed, except possibly in the colder regions of the State. Color forms A, B, C, D, E (*nigriventre* Costa), and F (*coementarium*), are all represented by Ithaca specimens (Bdy-CU).

(Subgenus **CHALYBION** Dahlbom)

S. cyaneum Dahlb. THE BLUE MUD-DAUBER. With the foregoing, possibly more restricted to the warmer districts: Otto, Castile, Ithaca (Bdy-CU); Albany, etc.; common on **SI** and **LI** (Beq).

SUBFAMILY **PSENINAE**

Tribe **PSENINI**

DIODONTUS Curtis not auctt.

(*Neofoxia* Viereck)

(Subgenus **PSENULUS** Kohl)

D. trisulcus (Fox). Otto, bred from nests in sumac stems, adults emerging May 18, *Comstock* (Bdy-CU).

PSEN Latreille

(Subgenus **PSEN** Latreille)

P. monticola (Pck.). Ithaca, Jl 18, 1922 (Bdy-CU), Jl 7 (Bks).

(Subgenus **MIMESA** Shuckard)

P. argentifrons (Cress.). Ithaca, Aug 18 (Bdy-CU); Gloversville, Sep (NYS). Nests in sandy places, and Williams has observed a cone of agglutinized sand grains surmounting the entrance; the nests are provisioned with leaf hoppers, Williams states of the species *Athysanus exitiosa* Uhler.

P. borealis (Sm). Enfield Falls, Sep 10 (Bdy-CU).

P. cressoni (Pck.). Niverville, Aug 24 (Bks).

P. denticulata (Pck.). "NY", *Nort* (Pck).

P. johnsoni (Vier.). Dryden L., Je 16, *MacG* (Bdy-CU).

P. kohlii Fox. **LI:** Gardiners I. (Beq).

P. leucopus Say. Ithaca, Jl 16–Aug 9 (Bdy-CU).

P. longicornis Fox. Ithaca, Jl 16 (Bdy-CU).

P. mellipes Say. "NY" (Fox).

P. niger Pck. Axton, Je 12–22, *M&H* (Ashmead-CU); Norton's Landing, Cayuga L., Je 13, *SmHH* (Cress-CU); **LI:** Long Beach (Beq).

P. pauper (Pck.). Albion (Bdy-CU); Hamburg, Jl 19, *MCV* (Bks); Ithaca, Aug 23 (Bdy-CU); **LI:** Fishers I., Aug, *Zab* (AM).

P. trisulcus Fox. **LI:** Sea Cliff, Sep (Bks).

P. unicincta (Cress.). Ithaca, Jl 5 (Bdy-CU).

Tribe **PEMPHREDONINI**

STIGMUS Panzer

(The members of this genus build in wood, two or three wasps building, in some cases at least, chambers near together, which have a common entrance gallery. They provision their nests with aphids.)

S. americanus Pck. Ithaca (Bks); McLean, Sep 16, 1924, *Sib* (Bdy-CU).

S. fraternus Say. L. Placid, Je, *Yg* (NYS); Silver Bay, Je, *Yg* (NYS); Elm L., Aug, *Yg* (NYS); Norton's Landing, Cayuga L., Je 4, *SmHH* (Cress-CU); Ithaca, Jl, nest in pithy stem, adults emerged Jl 22 (CU); McLean, Sep 16, 1924 (Bdy-CU); Albany, Aug, *Yg* (NYS); Rensselaer, Je, *Yg* (NYS); W. Nyack (Beq); Dobbs Ferry, Jl, *Yg* (NYS); West Farms, *Angus* (Pck); **LI:** Gardiners I. (Beq); Sea Cliff, Je, Roslyn (Bks).

PEMPHREDON Latreille

(The members of this genus build chiefly in decaying wood, provisioning their nests with aphids.)

(Subgenus **DIPHLEBUS** Westwood)

P. bipartior Fox. **LI:** Sea Cliff, Aug–Sep (Bks).

P. inornatus (Say). L. Placid, Je, Elm L., Aug (NYS); Ithaca, Jl 2–Aug 4 (Bdy-CU); Mud Cr., Je 17–20, MacG (*Bdy*-CU); Norton's Landing, Cayuga L., May 29–Je 3, *SmHH* (Cress-CU); Albany, Je, Dobbs Ferry, Je, *Yg* (NYS); Rensselaer, Jl, *Yg* (NYS); **LI:** Flatbush, *Zab* (AM); Sea Cliff (Bks).

P. tenax Fox. Ithaca, May 30–Jl 25 (Bdy-CU); Mud Cr., Je 17–20, Slaterville to Caroline, Je 14, Dryden L., Je 16, *MacG* (*Bdy*-CU); McLean, Sep 20, *Sib* (Bdy-CU); Bear Mt., Je 2, *Schott* (Roh); **LI:** Sea Cliff (Bks); Flatbush (AM). The nests of this species have been observed by the Raus in elder stems, provisioned with an aphid, *Macrosiphum rudbeckiae* (Fitch).

(Subgenus **PEMPHREDON** Latreille)

P. angularis Fox. **LI:** Sea Cliff, Je (Bks).

P. concolor Prov. Big Moose, Aug, Speculator, May, *Yg* (NYS); Newport, Jl, *Yg* (NYS); Ithaca, Aug, *Yg* (NYS); Albany, Sep, *Yg*, *Lint* (NYS); Karner, May, *Yg* (NYS); Inwood, *Schott* (Beq); **SI**, May 30, *Ds* (Ashm).

PASSALOECUS Shuckard

(These wasps prefer rotten wood for their nesting site, or utilize the galleries of wood-boring insects, or hollow stems of plants, building clay cells within the cavity. They provision their nests with aphids.)

P. annulatus (Say). Ithaca, Jl 10. (Bdy-CU); Mud Cr., Je 17–20, *MacG* (*Bdy*-CU); **LI:** Sea Cliff, Jl (Bks).

P. distinctus Fox. Ithaca, Je 28 (Bdy-CU).

P. mandibularis Cress. L. Placid, Je, *Yg* (NYS); Ithaca, Je 5–27 (Bdy-CU); Albany, Je, *Yg* (NYS); West Farms, *Angus* (AM); **LI:** Sea Cliff (Bks).

SUBFAMILY **BEMBECINAE**

Tribe **NYSSONINI**

ALYSON Jurine [176]

A. conicus Prov. Wilmington, 1000–2200 ft., Aug 20–25 (Bdy-CU); Lancaster, Aug 15, *MCV* (Bks); Middletown, Jl 2–20, *SpoonerCS* (Bdy-CU); Rhinebeck, Jl 27, *Cy* (Bdy); Van Cort. Pk., Jl 20 (Bdy-CU).

A. guignardi Prov. Mud Cr., Je 17–20, *MacG* (*Bdy*-CU); McLean, Jl 2–3 (Bdy-CU); Ithaca, Jl 31 (Bdy-CU); **SI** (Beq).

A. melleus Say. Ithaca, Aug 10–31 (*Bdy*-CU); **LI:** Wading R., Je 27, *Schott* (Rohwer). An essentially southern species. Builds, according to the Raus, always in a cool damp bank of mud or sandy clay near a body of water, but at least the surface of the sand may be hot and dry. Provisions its nest with leaf hoppers.

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[176] If the Erlangen List is accepted, this name will have to be spelled "Alysson."

A. oppositus Say. Wilmington, Aug 20–25, 1000–2200 ft. (Bdy-CU); Old Forge, Jl, *Yg* (NYS); Ithaca, Jl 19 (*Bdy*-CU); **LI:** Sea Cliff (Bks).

A. striatus Fox. Ithaca, Jl 7 (Bks).

A. triangulifer Prov. Ithaca, Je 23–Aug 14, Dryden L., Je 16, Mud Cr., Je 17–20, *MacG* (*Bdy*-CU).

DIDINEIS Wesmael

D. texana (Cress.). Ithaca, Jl 14 (Bdy-CU).

MELLINUS Fabricius

M. bimaculatus Pck. "NY" (AM). This is a rare insect.

GORYTES Latreille not auctt.

(*Hoplisus* Lepeletier)

(These wasps nest in sand or soil and provision their nests with leaf-hoppers.)

(Subgenus **PSEUDOPLISUS** Ashmead)

G. phaleratus Say. New Russia, Aug 18 (*Bdy*-CU); Manlius, Aug 1–15, *SmHH* (Cress-CU); Potsdam, Jl–Aug 14 (Beq-CU); Rochester Jct., Jl 11, *Leon* (Bdy-CU); Ithaca, Jl 14–Aug 6 (Bdy-CU); McLean, Jl 18, 1921 (Bdy-CU); L. George, Aug 28, *Zab* (AM); New Baltimore, *Zab* (AM); Oliverea (Beq); Nyack (AM); Stony Pt. (Beq); **SI,** *Ds* (Ashm, Beq); **LI:** Huntington (Beq); Flushing (AM).

(Subgenus **GORYTES** Latreille)

(*Hoplisus* Lepeletier)

G. atricornis Pck. Keene Val. (Beq); Ithaca, Jl 4–21 (Bdy-CU).

G. canaliculatus Pck. Newport, Je, *Yg* (NYS); Ithaca, Jl 17 (Bdy-CU).

G. costalis Cress. **LI:** Cold Sp. Harb., Jl 23 (Bridwell-AM).

G. nebulosus Pck. Ithaca, Jl 15–Aug 10 (Bdy-CU).

G. simillimus (Sm.). Keene Val., *Not* (Bridwell, Beq); Ithaca, Je 26–Aug 10 (Bdy-CU); McLean, Aug 1, 1925, *SRobinson* (Bdy-CU); Oliverea (Beq); W. Nyack (Beq); Yonkers (Bridwell-AM); **LI:** Sea Cliff (Bks).

ARPACTUS Jurine

(*Gorytes* auctt.)

A. nigrifrons Sm. Huguenot, Jl 6, *Zab* (Bridwell-AM).

AMMATOMUS Spinola

(Subgenus **PARAMELLINUS** Rohwer)

A. bipunctatus (Say). Albany, Ap 12, *Yg* (NYS); Nyack, *Aug* (AM).

NYSSON Latreille

(Subgenus NYSSON Latreille)

N. aequalis Patt. W. Nyack (Beq); **SI** (Beq).

N. daeckei Vier. **LI:** Pennequid Barrens (Beq).

N. lateralis Pck. Poughkeepsie, Jl (NYS).

N. plagiatus Cress. **SI** (Beq); **LI:** Flatbush, *Eng*, Springs (Beq); Gardiners I. (Beq).

(Subgenus BRACHYSTEGUS Costa)

N. opulentus Gerst. "NY" (Cress, Fox).

SPHECIUS Dahlbom

S. speciosus (Dru.). THE CICADA KILLER. Albany (Felt-NYS); Karner, Aug (NYS); Kinderhook, Aug 26 (Bdy-CU); Tarrytown, *PincJA* (Lint-NYS); **SI,** numerous (Ds); **LI:** Roslyn, *Bks* (Bdy-CU); Flatbush, Gardiners I. (Beq); Sea Cliff (Bks). An austral form, not likely to be found elsewhere in the State than LI and the lower Hudson Val. and such an austral station as the sand hills around Karner. Nests in sandy soil and provisions its nest with cicadas.

Tribe PHILANTHINI

PHILANTHUS Fabricius

(These wasps burrow in the ground, provisioning their nests with bees.)

P. albifrons Cress. **SI,** Aug 9, *Ds* (Beq).

P. bilunatus Cress. Saranac Inn, Aug (NYS); Keene Val. (Beq); Rochester Jct., Jl 7, *Leon* (Bdy-CU); Norton's Landing, Cayuga L., Jl 1–15, *SmHH* (Cress-CU); New Baltimore, *Zab* (Bks-AM); W. Nyack (Beq); **SI** (Beq).

P. consimilis Bks. Boston, *MCV*, types.

P. gibbosus (Fab.) (*punctatus* Say). Niagara Falls, Aug 17, *Ds* (Beq); Ithaca, Jl 5–Oct 27 (Bdy, Bks-CU); Norton's Landing, Cayuga L., Jl 10, *SmHH* (Cress); New Baltimore (Bks-AM); Ft. Montgomery, Jl, *Ds, Schott* (Beq); W. Nyack (Beq); White Plains (Beq); Van Cort. Pk., Jl 20 (Bdy-CU); **SI,** Jl 4, *Ds* (Beq); **LI:** Sea Cliff, *Bks* (Beq); Orient (Beq); Flatbush, Fishers I. (Bks-AM); Gardiners I. (Beq); Farmingdale, Jl 15, *Morrow* (Bdy-CU). Provisions its nests with species of Halictus.

P. lepidus Cress. Aurora (E. Aurora?), Jl 21, *Zab* (Bks-AM).

P. politus Say. Karner, Jl (NYS).

P. sanborni Cress. Ft. Montgomery, *Schott* (Beq); **LI:** Forest Lawn, Jl 27, *Zab* (Bks-AM).

P. solivagus Say. New Russia, Aug 18 (*Bdy*-CU); Keene Val. (Beq); Ithaca, Aug 8–31 (Bdy-CU); Cattaraugus, Sep 11 (Bdy-CU); Enfield Falls (Bdy-CU); Binghamton, Sep 5, *Ellsworth* (Bdy-CU); L. George, *Zab* (Bks-AM); White Plains (Beq); **SI** (Beq); **LI:** Fishers I., *Zab* (Bks-AM); Gardiners I. (Beq); Orient (Beq).

P. vertilabris Fab. Nyack, *Zab* (Bks-AM). Provisions its nest with several species of bees.

APHILANTHOPS Patton

A. frigidus (Sm.). New Russia, Aug 18 (*Bdy*-CU); Ithaca, Aug (Bdy-CU); Norton's Landing, Cayuga L., Jl 1–15, *SmHH* (Cress); McLean, Aug 20–26, 1925, *SRobinson* (Bdy-CU); Montgomery, Jl 20, *Frost* (Bdy-And); Inwood, *Schott* (Beq); **SI**, Aug 15, *Ds* (Beq); **LI**: Elden, Aug 30, *Ds* (Beq); Bay Shore, *Ols*, Wyandanch, *Schott* (Beq). This species provisions its nest with queen ants.

Tribe CERCERINI

EUCERCERIS Cresson

E. laticeps Cress. Gloversville, Aug (NYS); White Plains, *Bno* (Beq).

CERCERIS Latreille

(Wasps of this genus usually burrow in the ground and provision their nests with weevils or buprestids. But at least one species, sometimes if not always, builds in weed stalks.)

C. alaope Bks. **LI**: Sea Cliff (Bks).

C. arelate Bks. New Russia, Aug 18, 1912, *Bdy* (Bks-CU); Ithaca, Jl 27–Aug 19 (Bks-CU).

C. bicornuta Guer. **SI**, Jl 1–Aug 19, *Ds* (Beq); **LI**: Rosedale, *Schott* (Beq); Jamaica, *Eng* (Beq); Flushing (Beq); Huntington, *Schott* (Beq).

C. chrysippe Bks. Ithaca, Jl 13 (Bdy-CU).

C. clypeata Dahlb. Johnstown, Aug (NYS); Ithaca, Jl 9–Aug 18 (Bdy-CU); W. Danby, Aug 15, *Summers* (Bdy-CU); McLean, Aug 31, 1925, *SRobinson* (Bdy-CU); W. Nyack, White Plains (Beq); **SI**, *Ds* (Cress, Beq); **LI**: Cold Sp. Harb., Jamaica, Huntington, Port Jefferson (Beq); Farmingdale, Jl, *Morrow* (Bks-CU).

C. compacta Cress. Elizabethtown, Je, *Yg* (NYS); **LI**: Gardiners I. (Beq).

C. compar Cress. Ithaca (Bks); Rhinebeck, Jl 27, 1907, *Cy* (Bks-CU).

C. dentifrons Cress. Essex Co, Aug; **LI**: Sea Cliff (Bks).

C. deserta Say. New Russia, Aug 18, *Bdy* (Bks-CU); Saranac L., Aug 26 (Bks-CU); Ithaca, Je 28–Sep 4 (Bdy, Bks-CU); White Plains (Beq); Chatham, *Morse* (Bks); **SI**, Jl, *Ds* (Beq); **LI**: Sea Cliff (Bks); Springs (Beq); Gardiners I. (Beq).

C. fumipennis Say. Albany (NYS); Karner; W. Nyack (Beq); **LI**: Yaphank, Aug 5, *Comstock* (*Grossbeck*); Wading R., *Eng*, Wyandanch, *Schott*, Yaphank, Aug, *Ds* (Beq).

C. nigrescens Sm. Keene Val. (Beq); Manlius, Aug 1–15, *SmHH* (Bdy-CU); Otto, Sep 15–30, *Comstock* (Bdy-CU); Rochester Jct., Je 29, *Leon* (Bdy-CU); Ithaca, Jl 22–Sep (Bdy, Bks-CU); Norton's Landing, Cayuga L., Je 1–15, *SmHH* (Bdy-CU).

C. nigritulus Bks. Colden, *MCV*, type.

C. occipitomaculata Pck. (*fulvipediculata* Schletterer, *fulvipes* Cress.). Long L., Aug (NYS); Keene Val., *Not* (Beq); Wilmington, Aug 20–25, 1000–2200 ft. (Bks-CU); Cattaraugus, Sep 11 (Bdy-CU).

C. robertsoni Fox. Ithaca, Jl 16 (Bdy-CU).

C. salome Bks. Nyack, NYC, types.

C. venator Cress. "NY", *Angus* (Cress, Pck).

Tribe **BEMBICINI** [177]

(Sand wasps. All build in sand.)

STICTIA Illiger

S. carolina (Fab.). **SI:** Watchogue, Aug 10, *Ds* (*JBParker*, *Ds*, Sf). An austral species reaching in SI the extreme northern limit of its known range. Davis states that it occurred in some abundance one season but has not been observed since. The species nests in colonies and provisions its nests with horseflies, but lays its eggs in the empty cell, not bringing in food until the larva has hatched.

STICTIELLA Parker

S. emarginata Cress. Center, Jl, 1870, 1♂ (Roh-NYS).

BICYRTES Lepeletier

(These species store their nests with nymphs of Hemiptera, mostly stinkbugs, filling and sealing the cells, instead of providing daily provender.)

B. quadrifasciata (Say). New Windsor, Nyack (AM); White Plains (Beq); **SI,** Aug (JBParker, *Ds*); **LI:** Cold Sp. Harb. (Beq). An austral species reaching the northern limit of its range in the coastal region of Conn.

B. ventralis (Say). Wilmington, Aug 20–25 (Bdy-CU); Keene Val., *Not* (Beq); White L. (AM); L. Waccabuc (AM); Manlius, Aug 18–23, *SmHH* (Cress-CU); Castile, *EABradley*; Ithaca, Jl 15–Aug 18 (Bdy-CU); Norton's Landing, Cayuga L., Jl 1–14, *SmHH* (Cress-CU); L. George (AM); Rhinebeck, Jl 27, *Cy* (Bdy-CU); Ft. Montgomery, Jl, *Ds* (*JBParker*, Ds); W. Nyack (Beq); White Plains (Beq); NYC (AM); **SI,** Jl–Sep (JBParker, *Ds*); **LI:** Yaphank, Jl, Aqueduct, Sep (JBParker, *Ds*); Farmingdale, Je 17, *Morrow* (Bdy-CU); Sea Cliff (Bks); Jamaica, Flushing (Beq). Extends throughout the Carolinian and Transition zones, northward into Canada.

BEMBEX Fabricius

(The species of Bembex nest in colonies in sand. They feed their larvae from day to day with flies. The egg is laid on a paralyzed fly.)

B. pruinosa Fox. Karner, Sep (Bdy-NYS); "NY" (Parker). An austral species which probably reaches its northern limit in the coastal district of New York, and such Carolinian islands as the sand hills around Karner.

B. spinolae Lep. Mt. Whiteface, 2000-4000 ft., Aug 23 (Bdy-CU); Norton's Landing, Cayuga L., Jl 1–14, *SmHH* (Cress-CU); Ithaca, Jl 10–Sep 9 (Bdy-CU); New Riverside (Bdy-CU); Karner, Jl (Parker, Ds); Debruce, Sep (Parker, *Ds*); **SI,** Aug (Parker, *Ds*); **LI:** Aqueduct, Wading R., Rockaway, Je–Sep (Parker, *Ds*). The commonest species of the genus throughout the greater part of the Austral and especially of the Transition zone, reaching northward into Canada.

MICROBEMBEX Patton

M. monodonta (Say). Karner, Jl (NYS); **SI,** Je–Sep (Parker,*Ds*); **LI:** Sea Cliff, *Bks* (Parker-CU). An abundant species of the sea beaches, both Atlantic and Pacific, nesting in white sand, but also found more sparingly

[177] A revision of the bembecine wasps of America, north of Mexico. By John Bernard Parker. Proc. U.S. Nat. Mus., 1917, **52**: 1–155.

inland on sandy areas. Its northern limit, so far as known, is the coast of Conn. It provisions its nest with a variety of dead insects, which it gathers up on the sand.

SUBFAMILY **OXYBELINAE**

(*Crabroninae*)

Tribe **SOLENIINI**

(*Crabronini*)

Some species of this tribe nest in the ground, some excavate the pith of plants, some build in solid wood, and some use deserted burrows or any suitable hole. Mostly the nests are provisioned with flies. The genera and subgenera recognized in this tribe correspond to those recognized by Kohl in his recent monograph of the Palearctic forms. The "Artengruppen" of Crabro are here recognized as subgenera, but his "Untergruppen" are not so recognized.

SOLENIUS Lepeletier

(*Crabro* auctt.)

(Subgenus SOLENIUS Lepeletier)

S. brunneipes Pck. Ithaca, Je 25–Jl (Bdy-CU).

S. corrugatus Pck. Ithaca (Bks).

S. montanus Cress. Norton's Landing, Cayuga L., Je 17, *SmHH* (Cress-CU); Dryden L., Je 16, Ithaca to Ellis, Je 9–12, *MacG* (Bdy-CU). Nests in logs.

S. parvulus Pck. Rock City, Je 7 (Bdy-CU); Ithaca, Jl 25, McLean, May 31–Jl 18 (Bdy-CU).

S. obscurus Sm. Ithaca (Bks); Manlius, Aug, *SmHH* (Cress-CU); McLean, May 30–Je 30, Ithaca to Ellis, Ap 22–Aug 1, *MacG* (*Bdy*-CU); Oliverea (Beq); **LI:** Orient (Beq). Has been observed nesting in logs.

S. nigrifrons Cress. Ithaca, Jl (Bks).

S. septentrionalis Pck. Ithaca, Je 13–Aug 30, Freeville, Jl 4 (Bdy-CU).

S. sayi Ckll. (*sexmaculatus* Say). Wilmington, 1000–2000 ft., Aug 20–25, New Russia, Aug 8, Potsdam, Aug 14, Peru, Je 21, Taughannock, Aug 13, Ithaca, Ap–Aug 28 (*Bdy*-CU); Alexandria Bay, Sep 4 (Bdy-CU); Malloryville, Je 18–20, *MacG* (*Bdy*-CU); Rock City, Je 5 (Bdy-CU); Ithaca (Bks); Caroline to Harford, Je 15, McLean, May 31–Aug 30, *Sib*, Mud Cr., Je 17–20, Ellis to Slaterville, Je 13, *MacG* (*Bdy*-CU); Norton's Landing, Cayuga L., Jl 1–14, *SmHH* (Cress-CU); Spencer, Je 30 (Bdy-CU); Center Lisle, Je 10 (Bdy-CU); Oliverea (Beq); Ft. Montgomery, *Schott* (Beq); Pine I. (Beq); Bear Mt., Sep 7, *Schott* (Roh); **SI,** Jl, *Ds* (Beq); **LI:** Maspeth (Beq). Known to nest in logs.

S. trifasciatus (Say). Newport, Jl, Saranac Inn., Jl (NYS); Manlius, Aug, *SmHH* (Cress-CU); Otto, Sep 1–15, *Comst* (Bdy-CU); Geneva, Je 26, *Comstock* (Bdy-CU); Ithaca, May–Jl 9, Spencer, Je 30, *Comstock* (Bdy-CU); Ellis to Slaterville, Je 13, *MacG*; McLean, Jl 18 (*Bdy*-CU); Taughannock, Jl 13, Homer, Jl 2, *MacG* (*Bdy*-CU); Norton's Landing, Je, *SmHH* (Cress-CU); Albany, Sep, Poughkeepsie, Jl (NYS); **SI,** Aug, *Ds* (Ashm); **LI:** Gardiners I. (Beq).

S. stirpicola Pck. Spencer L., Je 30, Ithaca, Jl 7–Aug 1, McLean, Jl 18 (Bdy-CU). Nests in brambles and elder twigs, provisioning them with a variety of flies. They have been observed to utilize tunnels in a railroad tie for a nesting site.

S. decemmaculatus Say. West Farms, *Angus*, *Nort* (Pck); **LI:** Springs (Beq). Preys on horseflies.

S. chrysargyrus Lep. (*chrysarginus* Pck.). Keene Val., *Not* (Beq); Manlius, Sep 6, *SmHH* (Cress-CU); New Russia, Aug 18 (*Bdy*-CU); Caroline to Harford, Je 10, Ithaca, Je–Jl 9, *MacG* (*Bdy*-CU); Ft. Montgomery, *Schott* (Beq); **SI,** *Ds* (Ashm). Very widely distributed from Ga northward to Canada and westward to the Pacific Coast. Nests in logs.

S. rufifemur Pck. Ithaca, Jl–Aug 4 (Bdy-CU); **SI** (Beq).

S. singularis Sm. (*maculatus* Fab.?). Keene Val. (Beq); Old Forge, Wells, Saranac Inn, Jl (NYS); Malloryville, Je 18–20, *MacG* (*Bdy*-CU); Otto; Ithaca, Jl 14–30, McLean, Jl 9–Aug 30, *SRobinson* (Bdy-CU); Trenton Falls, *Dbl* (FSm); Oliverea (Beq); **LI:** Orient (Beq).

(Subgenus **CERATOCOLUS** Lepeletier)

S. producticollis Pck. Keene Val. (Beq); Wells, Jl, Long L., Aug (NYS); Portageville, Je 13, Ithaca, Je 13–Aug 6 (Bdy-CU); Mud Cr., Je 17–20, *MacG* (*Bdy*-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); **LI:** Sea Cliff (Bks); Pennequid Barrens (Beq); Huntington, Aug 19, *Schott* (Roh). A Canadian species.

S. interruptus Lep. Canandaigua L., Jl (NYS); Manlius, Sep, *SmHH* (Cress-CU); Geneva, Je 26, *Cy* (Bdy-CU); Otto, Sep 1–15, *Comstock* (Cress-CU); Ithaca, May–Sep (Bdy-CU); Taughannock, Jl 2, Spencer, Je 30, *Comstock* (Bdy-CU); Norton's Landing, Cayuga L., Jl, *SmHH* (Cress-CU); Ft. Montgomery, *Schott* (Beq); Middletown, Jl 2–20, *Spooner* (Bdy-CU); **SI,** Jl 20, *Ds*, *Ashm* (Beq); **LI:** Springs, Gardiners I. (Beq).

(Subgenus **THYREOPUS** Lepeletier)

S. argus Pck. **LI,** *Ashm* (Fox); Gardiners I. (Beq).

S. cribellifer Pck. **LI,** *Ashm* (Fox); Gardiners I. (Beq).

S. latipes Sm. Axton, Je 12–22, *MacG&H* (Bdy-CU); Long L., Aug (NYS). A Canadian species.

S. monticolus Pck. Old Forge, Jl, Piseco L., Aug (NYS).

S. provancheri Fox. Ithaca, Aug 12 (Bdy-CU).

S. advenus Sm. Batavia, Je 18, Ithaca, Je 20–Oct 2 (Bdy-CU); **LI,** *Ashm* (Fox).

S. tumidus Pck. **LI:** Jamaica (Beq).

(Subgenus **CROSSOCERUS** Lepeletier)

S. nitidiventris Fox. Ithaca, Je 5–Jl (Bdy-CU).

S. maculipennis Sm. Speculator, Aug (NYS); Rochester Jct., Je 28, *Leon* (Bdy-CU); Black Br., Je 21 (Bdy-CU); Ithaca, Je 5–Jl 22 (Bdy-CU); L. Keuka, Je 28, *Cy* (Bdy-CU); Albany, May (NYS).

S. minimus Pck. Wilmington, 1000–2000 ft., Aug 20–25 (Bdy-CU); Ithaca, Je 27, *Guerlac* (Bdy); **LI:** Sea Cliff (Bks).

S. tarsalis Fox. "NY" (Fox).

S. harringtonii Fox. New Russia, Aug 18 (Bdy-CU).

S. impressifrons Sm. New Russia, Aug 18, Ithaca, Jl 9–Aug 27 (*Bdy*-CU); **LI:** E. New York, *Schott* (Beq).

S. nigricornis (Prov.). Ithaca, Je 22, McLean Bogs, May 29 (Bdy-CU); **LI:** Gardiners I. (Beq).

S. ater (Cress.). McLean, Aug 19–31, *Sib*, *SRobinson* (Bdy-CU).

S. pedicellatus Pck. Otto (Bdy-CU); Ithaca, Je 27–Jl 22 (Bdy-CU); Albany, May, *Nort*, West Farms, *Angus* (Pck); W. Nyack (Beq); **SI** (Beq). Ithaca specimens bred from nest in a hollow stem. The Peckhams say they build in old stumps, provisioning with Chironomus.

ANACRABRO Packard

A. ocellatus Pck. Ithaca, Jl 21 (Bdy-CU); Taughannock, Jl 21 (Bdy-CU); Karner, Kenwood, Albany, Jl (NYS); Bear Mt., Je 2, *Schott* (Roh); **SI,** Je 30, *Ds* (Ashm, Beq); **LI:** Cold Sp. Harb., Pennequid Barrens (Beq). Builds in sand banks, and provisions its nest with the plant-bug *Lygus pratensis* (L.).

Tribe **OXYBELINI**

OXYBELUS Latreille

O. quadrinotatus Say. Old Forge, Jl (NYS); Ithaca, Aug 10, *Comstock,* found nesting in sandy place, the cells provisioned with flies, from two to four inches below surface (Bdy-CU); McLean, Jl 18 (Bdy-CU); Manlius, Aug 15, *SmHH* (Cress-CU); Dublin (Pck); Karner, Jl, Rensselaer, Jl (NYS). Common. Nests in sandy places, using flies for provender, which it transports by impaling them on its sting.

FAMILY **HYLAEIDAE** [178]

(*Prosopidae*)

Compiled by M. D. LEONARD

SUBFAMILY **COLLETINAE**

COLLETES Latreille

(The members of this genus build characteristic nests in the ground, often in colonies.)

C. americanus Cress. Ithaca, Jl–Aug (Rich-CU); New Baltimore (Schw); Nyack (Schw); Tappan, Oct (Schw); Mosholu, Sep (Schw); Bryn Mawr Pk., Sep (Schw); **LI:** Pine I., Sep (Schw).

C. armatus Patt. "NY" (Patt-AES), type; Hague, Sep (Schw); L. George, Aug (Schw); Forest Lawn, Sep (Schw); White L., Sep (Schw); Mosholu, Sep (Schw); Nyack (Schw); **LI.**

C. compactus Cress. Tomkins Cove, Sep (Schw); Nyack, Mosholu, Suffern, Sep, Ramapo, Van Cort. Pk., Sep (all Schw); **LI:** Flatbush, Sep, Pine I., Sep (Schw).

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[178] The list of bees, with the exception of Bombidae, has been compiled from literature and from material which has been determined in the Cornell collection by E. A. Richmond and others. H. E. Schwarz has contributed records of Colletes and Hylaeus. The editors are under obligations to Miss Grace Sandhouse, and especially to T. D. A. Cockerell, for assistance and suggestions as to synonymy, etc., and for additional records. H. L. Viereck has compiled the list of the genus Andrena.

C. inequalis Say. Ithaca, Ap–May (Rich-CU); Albany, Karner, Poughkeepsie, Ap–May (NYS); New Baltimore, Nyack (Schw); **LI,** May (Schw).

C. latitarsis Robt. Huguenot, Aug 27, one ♂ (Schw).

C. productus Rob. Chazy L., Je; Trenton Falls, Jl; Newport, Jl, *Yg*; Ithaca, May; Karner, Ap–Sep; Clinton Hgts., Ap (all NYS).

C. validus Cress. **LI:** Sea Cliff, Bayville (Swenk).

SUBFAMILY **HYLAEINAE**

HYLAEUS Fabricius

(*Prosopis* Fabricius)

(The members of this genus usually nest in pithy stems, but some in the ground, or in crevices in walls.)

H. basalis (Sm.). Cranberry L., Jl (Schw); Ithaca, Jl (Rich-CU).

H. cressoni (Ckll.) (*pygmaeus* Cress.). Ithaca, Je–Jl (Rich-CU).

H. modestus Say. Keene Val, Jl–Aug (Schw); L. George, Aug (Schw); Ithaca, Caroline to Harford, Taughannock Falls, Je–Aug (Rich-CU); Bushnellsville, Sep (Schw); Oliverea, Je (Schw); Stony Pt., Je (Schw); **LI:** Flatbush, Je, Pine I., Sep, Cold Sp. Harb., Jl (Schw). Visits milkweed, goldenrod, parsnip, meadowsweet, and day lily.

H. pygmaeus (Cress.). Keene Val., Aug (Schw); L. George, Aug (Schw); White L., Aug (Schw); **LI:** Cold Sp. Harb., Jl (Schw); Fishers I., Aug (Schw). On flowers of goldenrod and red raspberry.

H. varifrons (Cress.). Ithaca, Caroline, Je (Rich-CU); **LI:** Pine I. (Schw).

H. verticalis (Cress.). Mud Cr., Je (Rich-CU); McLean, Aug 20–31 (Roh-CU); Catskills, Aug (Schw).

H. ziziae (Robts.). Ithaca, Taughannock, Ringwood, Spencer L., Slaterville, May–Je (Rich-CU); McLean, Aug 1–7 (Roh-CU).

FAMILY **ANDRENIDAE** [179]

Compiled by M. D. LEONARD

SUBFAMILY **ANDRENINAE**

ANDRENA Fabricius [180]

(The very numerous species of Andrena build their nests in the ground where the vegetation is sparse. They often group their nests into colonies.)

A. accepta Vier. White Plains, Aug, Sep, on *Helianthus giganteus, Beq.*

A. angusi Vier. West Farms, NYC.

A. arabis Rob. McLean, Ap, *Morr.*

A. asteris Rob. White Plains, Sep 10, *Beq*; **LI:** Montauk, Sep, *Ds.* Visits aster.

A. barbarica Vier. **LI:** Brooklyn, *Beq.*

A. bisalicis Vier. Ithaca, Sep; **SI,** Ap, *Beq*; **LI:** Flushing; Farmingdale, Ap, on Salix.

A. braccata Vier. White Plains, Sep, on *Aster ericoides, Beq.* Found also on goldenrod.

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[179] See footnote under family Hylaeidae, page 1021.
[180] The list for this genus has been prepared by H. L. Viereck.

A. bradleyi Vier. **SI,** May, on Salix, *Beq.* Also on gooseberry and huckleberry.

A. canadensis D.T. Keene Val., Aug, *Lint.*

A. carlini Ckll. Newport, May, *Yg*; Ripley, Ap; Ithaca, Ap–May, *MacG, Morr*; McLean, Ap 17–Je 18; Easton, May; Albany, Ap–May; Delmar, May; Clinton Hgts., Ap–May; Garrison, *Ckll*; Poughkeepsie, May; **SI:** Watchogue, May; **LI:** Flatbush, May, *Zab*; Flushing; Yaphank, May, on *Antennaria plantaginifolia* and Salix; Half Way Hollow Hills, May; Wyandanch, May, *Ds*; Southold, Ap.

A. ceanothi Vier. **LI:** Central Pk., Je 27, on *Cornus candidissima, Beq.*

A. crataegi Rob. Speculator, Je, *Yg*; Keene Val., Jl, *Lint*; Saranac Inn, Je; Ilion, May, *Yg*; Oswego, Je; Northville, Je, *Yg*; Niagara Falls, Je, *Jn*; Pike, Je; Ithaca, *Fawaugh*; Corinth, May, *Yg*; Salem, Je; Albany, May–Je; Karner, Mar, May, *Yg*; Bath, Je; Red Hook, Je, *Leon*; White Plains, Je, *Beq*; Garrison, *Cattell*; **LI:** Cold Sp. Harb., Je, *Beq.* On fruit-tree flowers.

A. cressoni Rob. Ithaca, Ap; McLean, Ap, *Morr*; Nassau, May; Albany, Je; Poughkeepsie, May; **LI:** Flushing, *Beq.* Visits chokeberry.

A. erythrogastra var. **subaustralis** Ckll. Nyack, Feb, *Zab.*

A. erythronii Rob. Ithaca, Ap, *Morr.*

A. fenningeri Vier. Ithaca, *Bks.*

A. fimbriata Ill. **SI,** Aug, *Ds* (Ashm).

A. flavoclypeata Sm. Speculator, Je, *Yg*; Ithaca, May, *Bish, MacG*; McLean, Ap, wild cherry; Coy Glen, May, *Morr*; Nassau, May; Clinton Hgts., Ap; Karner, Ap–May; Bath, May; Delmar, May; Poughkeepsie, May; Red Hook, Je, *Leon*; Nyack, Oct, *Zab*; Garrison, *Cattell* (Ckll); **SI; LI:** Orient Pt., May; Central Pk., on *Cornus candidissima, Beq*; Farmingdale, Ap, on *Antennaria plantaginifolia, Beq.* Common on flowers of fruit-trees.

A. forbesi Rob. **LI:** Flushing, Ap; Farmingdale, Ap, on Salix, *Beq.* On pear, currant, willow.

A. fragariana Graen. Garrison, *Cattell* (Ckll).

A. fragilis Sm. Newport, Je, *Yg*; Northampton, Je, *Yg*; Ithaca, Aug; Poughkeepsie, Je; **LI:** Sea Cliff, *Bks.*

A. geranii maculati Rob. **LI:** Sea Cliff, *Bks.*

A. helianthi Rob. var. White Plains, Sep; **LI:** Flushing, on *Helianthus giganteus, Beq.*

A. hippotes Rob. Ithaca, May; Coy Glen, Ithaca, May; McLean, Ap, *Morr.* Visits apple, Japanese plum, and sweet cherry.

A. hirticincta Prov. Ithaca, Aug; McLean, Aug 23 (Roh-CU); Garrison, *Cattell*; **SI,** Aug–Sep, *Ds.* On goldenrod and other late summer flowers.

A. imitatrix Cress. Pike, Je.

A. imitatrix var. **claytoniae** Rob. Ithaca, Ap–May, *Morr*; McLean, Ap, wild cherry.

A. imitatrix var. **texana** Cress. Ithaca, Ap, *Morr*; McLean, Ap, wild cherry.

A. impunctata Kby. Cumberland, type; **SI,** Ap 30, *Ds* (Ashm).

A. integra Sm. "NY", *Nort.* On golden alexanders, *Zizia aurea* (L).

A. lata Vier. Adirondacks; Axton, Je (M&H).

A. mandibularis Rob. Niagara Falls, Je, *Jn.*

A. mariae Rob. var. **concolor** Rob. Coy Glen, Ithaca, Ap–May; McLean, Ap. Visits blackberry, currant, and gooseberry flowers.

A. milwaukeensis Graen. Mt. Skylight, 4800–4920 ft., Jl, *Beq*; Oswego, Je; Albany, May; Nyack, *Zab*; Garrison, *Cattell*; **SI**, *Ds*.

A. miranda Sm. Ithaca, May; Salem, Je; Rensselaer, May.

A. moesta Sm. **LI**: Farmingdale, Ap–May, on Salix; Flushing, *Beq*; Half Way Hollow Hills, *Ds*.

A. nasoni Rob. Oswego (NYS); Niagara, Je, *Jn*; Ithaca, Ap–May, *Morr*; McLean, Ap, on wild cherry; Albany, Je (NYS); Poughkeepsie, May (NYS); Garrison, *Cattell* (Ckll); **LI**: Cold Sp. Harb., Je, *Beq*. On fruit-tree blossoms, also currant and gooseberry.

A. nubecula Sm. Van Cort. Pk., *Beq*.

A. nuda Rob. **LI**: Cold Sp. Harb., Je, *Beq*.

A. perplexa Sm. "NY" (Pck).

A. placida Sm. (*macgillivrayi* Ckll.). Albany, Ap (NYS); **SI**, May 15, on *Rubus canadensis, Beq*; **LI**: Farmingdale, Ap, on Salix; Flushing, Ap, *Beq*; Orient, Ap (NYS). Gooseberry and Japanese plum.

A. regularis Mall. Speculator, Je, *Yg*; Ithaca, Ap–Je, *Bdy*; Rensselaer, May.

A. robertsoni D.T. Niagara Falls, Je, *Jn;* White Plains, Je; Garrison, *Cattell* (Ckll); **LI**: Cold Sp. Harb., Aug, on *Clethra alnifolia, Beq*.

A. rugosa Rob. Garrison, *Cattell*.

A. salictaria Rob. Newport, Je, *Yg*; Albany, Ap; Karner, Ap–May, *Yg*; W. Nyack, Mar, *Beq*.

A. sigmundi Ckll. Ithaca, *Bks*; McLean, Ap, *Morr*; Karner, Ap–May; Nassau, Ap; W. Nyack, Mar; **LI**: Farmingdale, on Salix; Flushing, Ap, *Beq*; Central Pk., *Ds*.

A. spireana Rob. White Plains, Je, on *Ceanothus americanus, Beq*; West Farms, NYC, *Angus*.

A. tridens Rob. Nyack, Oct, *Zab*.

A. vicina Sm. Ilion, May, *Yg*; Oswego, May (US); Ithaca, Ap–May, *Morr*; McLean, Ap, on wild cherry; Albany, May; Bath, Je; **SI**, May, *Beq*; **LI**: Half Way Hollow Hills, May, *Ds*; Central Pk., Ap, *Ds*; Farmingdale, Ap, on Salix; Flushing, *Beq*. On fruit-tree and gooseberry flowers.

A. wilkella Kby. Mt. Skylight, 4800–4920 ft., Jl, *Beq*; Mt. Marcy, 4800–5344 ft., Jl, on *Potentilla tridentata, Beq*; Rochester Jct.; Honeoye Falls, Je, *Ds*; Rock City, Je, *Ds*; Ithaca, May–Je, on wild cherry, *Bks, Morr*; McLean Bogs; Albany, May–Je; Karner, May, *Yg*; N. Chatham, Je; Niverville, Je, *Yg*; Poughkeepsie, May; Loomis; **SI**, May, on *Rubus canadensis*; **LI**: Farmingdale, Ap, on Salix; Wyandanch, May, *Ds*.

CALLIOPSIS Smith

C. andreniformis Sm. Keene Val., Aug (Rich-CU); Newport, Je, *Yg*; Ithaca, Je–Jl (Rich-CU).

EPEOLUS Latreille

(Social parasites in the nests of other bees.)

E. mercatus Fab. **SI**, Sep 2, *Ds* (Ashm).

E. scutellaris Say. **LI**: Huntington, Sep 16 (Schott).

E. vernoniae Ckll. Mooers, Sep 9–13, *Not* (Cwfd).

TRIEPEOLUS Robertson

T. donatus (Sm). **LI:** Huntington, Sep 16 (Schott).

HALICTUS Latreille

(These are gregarious mining bees which excavate their nests in bare level ground or in vertical banks, such as old gravel pits. Several bees of some species build their cells opening from a common gallery, the entrance to which is guarded by a bee whose head is used as a portal.)

(Subgenus HALICTUS Latreille)

H. inconspicuus Sm. **SI,** Jl–Aug, *Ds* (Ashm).
H. lerouxii Lep. Ithaca, May–Aug (Rich-CU); Scotia, Je (NYS). On gooseberry.
H. similis Sm. Ithaca, May (Rich-CU).
H. zonulus Sm. Ithaca, Je (Rich-CU).

(Subgenus ODONTALICTUS Robertson)

H. ligatus Say. Ithaca, Aug (Rich-CU); McLean, *Sib* (Bdy-CU); **SI,** Aug, *Ds* (Ashm). On goldenrod.

(Subgenus AGAPOSTEMON Guérin)

H. radiatus Say. Ithaca, Je (Cress-CU); McLean, Aug 27 (Roh-CU); Garrison *Cattell* (Ckll). On goldenrod, New Jersey tea, etc.
H. virescens (Fab.). Mooers, Sep 11, *Not* (Lutz); Ithaca, Je (Rich-CU); McLean, Sep 24 (Roh-CU).

(Subgenus OXYSTOGLOSSA Smith)

H. confusus Smith. Ithaca, Je–Jl (Rich-CU); McLean, Aug 19–31 (Roh-CU); Garrison, *Cattell* (Ckll).
H. purus Say. Ithaca, Jl (Rich-CU); McLean, Sep 16 (Roh-CU).

(Subgenus LASIOGLOSSUM Curtis)

H. fuscipennis Sm. **SI,** Je 15, *Ds* (Ashm).

(Subgenus CHLORALICTUS Robertson)

H. cattellae Ellis. Garrison, *Cattell* (type, Ckll).
H. hortensis Lovell. McLean, Aug 1–Sep 24, *SRobinson, Sib* (Roh-CU); Garrison *Cattell* (Ellis).
H. laevissimus Sm. **SI:** Prince's Bay Sta., *Ds* (Ashm).
H. subconnexus Ellis. Niagara, Je (Ckll); Garrison, *Cattell* (Ellis).
H. zephyrus Sm. Garrison (Ellis-CU). On fruit flowers.

(Subgenus CURTISAPIS Robertson)

H. coriaceus Sm. Ithaca, Je–Jl (Rich-CU); **SI,** Ap 30, *Ds* (Ashm).

(Subgenus **SELADONIA** Robertson)

H. flavipes Fab. **SI**, Jl, *Ds* (Ashm).

H. provancheri D.T. Ithaca, Ap (Rich-CU); McLean, Aug 24–Sep 16 (Roh-CU).

MACROPIS Panzer

M. ciliata Patt. Newport, Old Forge, Je, *Yg* (NYS); Elm L., Aug (NYS); Karner, Jl (NYS). On laurel, loosestrife, and ginseng.

M. morsei Patt. Elizabethtown (NYS); McLean, Jl (Rich-CU); Poughkeepsie, Jl (NYS).

M. patellata Patt. Ithaca, Jl (Rich-CU); McLean, Jl 19 (Roh-CU). Visits sumac, water hemlock, and fringed loosestrife.

NOMADA Fabricius

(Social parasites in the nests of other bees.)

(Subgenus **GNATHIAS** Robertson)

N. albofasciata Sm. "NY" (Ckll-US).

N. bella Cress. Ithaca, Ap–May (Rich-CU); McLean, May (Rich-CU); Nyack, *Zab* (Ckll).

N. cornelliana Ckll. Ithaca, *Bks* (Ckll).

N. cuneata (Robt.). "NY" (Ckll).

N. cuneata (Robt.) var. **quadrisignata** Robt. McLean, Ap 17–Je 18 (Roh-CU).

N. lepida Cress. Ithaca, Ap–May (Rich-CU); W. Danby, May (Rich-CU).

N. perplexa Cress. Ithaca, Je–Jl (Rich-CU).

(Subgenus **HOLONOMADA** Robertson)

N. affabilis Cress. Ithaca (Rich-CU); W. Danby, May (Rich-CU).

N. vincta Say. Ithaca (Rich-CU).

(Subgenus **HEMINOMADA** Cockerell)

N. obliterata Cress. Ithaca, May (Rich-CU).

(Subgenus **XANTHIDIUM** Robertson)

N. luteola Lep. Ithaca, May (Rich-CU).

N. luteoloides Robt. Nyack, *Zab* (Ckll).

(Subgenus **NOMADA** Fabricius)

N. bisignata Say. Ithaca, Ap–May (Rich-CU). Cannot be identified, according to Robertson, 1898.

N. cressoni Robt. Ithaca, Je (Rich-CU).

N. denticulata Robt. Ithaca, Ap 26 (Roh-US); W. Danby, May (Rich-CU).

N. gracilis Cress. Ithaca, Ap (Rich-CU).

N. pygmaea Cress. Ithaca, Ap–May (Rich-CU); McLean, May (Rich-CU).

N. sayi Robt. Ithaca, Ap–Je (Rich-CU).

N. xanthura Ckll. **LI**: Sea Cliff, May, *Bks*.

PANURGINUS Nylander

P. pauper (Cress.). "NY" (Cress).

PERDITA Smith

P. octomaculata (Say) Prov. Keene Val., Aug (Rich-CU); Ithaca, Aug (Rich-CU). Visits goldenrod and aster.

SPHECODES Latreille

(These are social parasites on the species of Halictus.)

S. arvensis Patt. McLean, Jl 18 (Roh-CU). On goldenrod, sunflower, parsnip, and meadowsweet.

S. dichropa Sm. Ithaca, Je (Rich-CU).

S. mandibularis Cress. Ithaca, *Sm* (CU). Visits goldenrod, New Jersey tea, and day lily.

S. persimilis Lov. & Ckll. Trenton Falls (Ckll).

S. trentonensis Ckll. Trenton Falls, type (Ckll).

SUBFAMILY ANTHOPHORINAE

ANTHOPHORA Latreille [181]

(The species of Anthophora build in vertical or steeply inclined banks, their entrance galleries protected by cylindrical chimneys. They build in colonies.)

(Subgenus ANTHEMOESSA Robertson)

A. abrupta Say. Ithaca, Je–Jl, *Smith* (CU). On rose, milkweed, bindweed, beard-tongue, Virginia water-leaf, Virginia cowslip, ipecac, and New Jersey tea.

(Subgenus ANTHOPHORA Latreille)

A. bomboides Kby. Ithaca, Jl–Aug (Rich-CU). On dogbane.

A. pyralitarsis Dours. "NY", type.

A. ursina Cress. Garrison, *Cattell* (Lutz&Ckll). On Virginia cowslip, blue-eyed Mary, milk vetch, and wild honeysuckle.

(Subgenus CLISODON Patton)

A. terminalis Cress. Ithaca, Jl–Aug (Rich-CU); McLean, Jl 18–Aug 31 (Roh-CU); Canandaigua, Je, *Felt* (NYS). Nests in wood. Visits aster, hedge nettle, pickerel-weed, etc. Considered identical with the European *A. furcata* (Panz.).

MELISSODES Latreille

(Subgenus MELISSODES Latreille)

M. agilis Cress. (*aurigenia* Cress.). Hope, Aug, 1900 (NYS); Gloversville, Aug, 1906; Ithaca, Je–Aug (Rich-CU); Albany, Ap, 1905. On sunflower and other composites.

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[181] If the Erlangen List is accepted, the name *Anthophora* will be replaced by *Lasius*.

M. bimaculata (Lep.). **SI,** Aug, *Ds* (Ashm); **LI:** Orient, Sep, *Ds* (Beq). On milk vetch, milkweed, wild potato, bindweed, figwort, speedwell, ironweed, Joe-pye weed, other composites, etc.

M. desponsa Sm. Ithaca, Jl–Aug (Rich-CU); **SI,** *Ds* (Ashm); **LI:** Yaphank, Sep, *Ds* (Beq). On goldenrod, thistle, sunflower, and other composites, and on pickerel-weed.

M. perplexa Cress. Ithaca, Aug (Rich-CU). On Jimson weed, goldenrod, aster, sunflower, and other composites.

M. rustica (Say). Ithaca, Aug (Rich-CU). On goldenrod.

TETRALONIA Spinola [182]

(*Synhalonia* Patton)

T. robertsoni Ckll. Garrison, *Cattell* (Lutz&Ckll).

XENOGLOSSA Smith

(Subgenus PEPONAPIS Robertson)

X. pruinosa (Say). Ithaca, Jl–Aug (Rich-CU). On pumpkin and other cucurbits, also milkweed.

SUBFAMILY XYLOCOPINAE

XYLOCOPA Latreille: CARPENTER BEES

X. virginica (Dru.). Ithaca, not common, *Bdy* (Cress-CU). Builds in beams and posts.

SUBFAMILY CERATININAE

CERATINA Latreille: THE LITTLE CARPENTER BEES

C. dupla Say. Ithaca, Ap–Jl (Rich-CU); McLean, May, Sep 16–20 (Roh-CU); Taughannock Falls, May (Rich-CU); **SI,** *Ds* (Ashm). The commonest dweller in sumac branches. Visits red raspberry and goldenrod flowers.

FAMILY MEGACHILIDAE [183]

Compiled by M. D. LEONARD

ANDRONICUS Cresson

A. cylindricus Cress. Ithaca, Taughannock, Je–Jl (Rich-CU).

ALCIDAMEA Cresson

A. producta Cress. Ithaca, May, *Comstock* (Rich-CU). Nests in sumac and other pithy plants.

HOPLITIS Klug

H. truncata (Cress.). Ithaca, Je–Jl (Rich-CU).

[182] Lutz and Cockerell point out that *Synhalonia* is probably the correct name for this genus and that *Tetralonia* Spin. is probably a synonym of *Eucera*.
[183] See footnote under family Hylaeidae, page 1021.

COELIOXYS Latreille

(These bees are social parasites in the nests of Megachile.)

C. dubitata Sm. Ithaca, Jl–Aug, *Comstock* (Rich-CU); Taughannock, Jl (Rich-CU).

C. modesta Sm. Ithaca, Jl (Rich-CU).

C. octodentata Say. Ithaca, Aug (Rich-CU); **SI,** Jl 30, *Ds* (Ashm). On mountain mint and goldenrod.

DIANTHIDIUM Cockerell

(These bees cement fragments together with resin to form their nests.)

D. jugatorium (Say). Ithaca, Jl–Aug (Rich-CU).

D. notatum (Latr.). **LI:** Huntington, Aug 19, *Schott* (Roh).

HERIADES Spinola

H. carinatus Cress. Ithaca, Je–Jl (Rich-CU); Spring Lake, Jl (Rich-CU).

MEGACHILE Latreille: LEAF-CUTTER BEES

(Subgenus **MEGACHILE** Latreille)

M. brevis Say. Ithaca, Je–Aug (Rich-CU); **SI,** *Ds* (Ashm). On sunflower, goldenrod, and milkweed.

M. exilis Cress. Ithaca, Sep (Rich-CU).

M. generosa Cress. Ithaca, Jl–Aug (Rich-CU).

M. mendica Cress. Ithaca, Jl–Sep (Rich-CU).

(Subgenus **ANTHEMOIS** Robertson)

M. infragilis Cress. Ithaca, Je–Aug (Rich-CU). On milkweed and burdock.

M. decipiens Lov. & Ckll. McLean, Aug 31, 1925, *SRobinson* (Roh-CU).

(Subgenus **XANTHOSARUS** Robertson)

M. latimana Say. Ithaca, Jl–Aug (Rich-CU); McLean, Jl 19 (Roh-CU); **SI,** Jl, *Ds* (Ashm).

M. melanophaea Sm. Ithaca, Je–Jl (Rich-CU).

(Subgenus **CYPHOPYGA** Robertson)

M. montivaga Cress. Ithaca, McLean, Je–Aug (Rich-CU).

(Subgenus **SAYAPIS**)

M. pugnata Say. Ithaca, Jl–Aug (Rich-CU).

(Subgenus **DELOMEGACHILE** Viereck)

M. vidua Sm. "NY"?

MONUMETHA Cresson

M. albifrons (Kby.). Ithaca (Rich-CU).

OSMIA Panzer

(Some Osmiae, known as mason bees, construct their nests of a mixture of sand and clay and some fluid which makes a cement-like mass. Some use vegetable fragments, some nest in snail shells; others line their nests with flower petals.)

O. albiventris Cress. Ithaca, Je–Jl (Rich-CU); W. Danby, May (Rich-CU).

O. atriventris Cress. (*proxima* Cress.). Ithaca, Je–Jl (Rich-CU).

O. bucephala Cress. (*latitarsus* Cress., *megacephala* Cress.). Ithaca, May–Je (Rich-CU).

O. canadensis Cress. Ithaca, Je (Rich-CU).

O. chalybea Sm. **SI,** Ap, *Ds* (Ashm).

O. collinsiae Robt. McLean, May 30 (Sand-CU).

O. conjuncta Cress. Ithaca, Ap–Jl (Rich-CU).

O. faceta Cress. Ithaca, Ap–Aug, Norton's Landing, Cayuga L., *SmHH*, Danby (Rich-CU).

O. lignaria Say. Ithaca, Ap–May (Rich-CU). Quince and apple.

O. major Robts. "NY"? On honeysuckle flowers.

O. pumila Cress. (*vicina* Cress.). Ithaca, Ap–May (Rich-CU); McLean, Ap–May (Rich-CU), Jl 15 (Sand-CU). On red-raspberry flowers.

O. rustica Cress. Ithaca, Slaterville, Je (Rich-CU). Lilac.

O. simillima Sm. Ithaca, May–Jl (Rich-CU).

PROCHELOSTOMA Robertson

P. philadelphi Robt. Ithaca, Je (Rich-CU).

STELIS Panzer

(Subgenus **MICROSTELIS**)

S. foederalis Sm. Ithaca, Je (Rich-CU).

(Subgenus **STELIS** Panzer)

S. lateralis Cress. Norton's Landing, Cayuga L., *SmHH* (CU); Ithaca, *Comstock* (CU); Albany, Je (NYS); Karner, Je (NYS). A parasite in the nests of *Alcidamia producta* Cress.

FAMILY **BOMBIDAE**[184]

BOMBUS Latreille: BUMBLEBEES

(Subgenus **BOMBUS** Latreille)

B. terricola Kby. New Russia (Bdy-CU); Keene Val. (Bdy, Beq); Long L. (Bdy-CU); L. Tear (Beq); Essex Falls, *Nic* (Beq); Mt. McIntyre (Bdy-NYS); Mt. Skylight (Beq); Labrador Hollow (Bdy); Crater Club, Aug (Fris); Cranberry L., Jl (Fris); St. Lawrence Co, Aug (Fris); Hermon, Aug (Fris); L. Pleasant (Bdy-NYS); Oneida (Franklin); Syracuse, May, Jl, Sep (Fris); Geneva, May (Fris); Ithaca (Bdy, Beq); Castile, *EABradley*;

[184] The editors are under obligations to Dr. Joseph Bequaert for extensive records in this family. T. H. Frison has also kindly sent in the records known to him.
If the Erlangen List is accepted, the family name *Bombidae* will become *Bremidae,* and the genus and subgenus name *Bombus* will become *Bremus.*

Gannett Hill, Ontario Co, 2000 ft., *Guerlac&Bdy*; Taughannock (Bdy-CU); Slaterville (Adams); L. George, *Zab* (Beq) · Albany (Bdy-NYS); Blackhead Mt., Greene Co (Beq); Big Ind. Val. (Beq); Oliverea (Beq); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); **LI** (Franklin). In the Adirondacks I have taken it as high as 4800 to 5000 ft., where it visits *Ledum groenlandicum, Oxycoccus oxycoccus,* and *Potentilla tridentata* (Beq). Essentially a boreal species, and moderately common in the colder part of the State; only one record from the LI district (Bdy).

B. affinis Cress. Keene Val., *Not* (Beq); Crater Club, Aug (Fris); Newport (Bdy-NYS); Castile, *EABradley*; Gannett Hill, Ontario Co, 2000 ft. (Guerlac); Covert (Bdy-NYS); Ithaca, Jl–Aug (Bdy,Fris); Taughannock Bdy-CU); Albany (Bdy-NYS); Big Ind. Val. (Beq); New Kingston (Bdy-CU); Woodbury (Beq); Ft. Montgomery, *Schott* (Beq); Ramapo Mts. (Beq); **SI,** *Ds* (Beq); **LI:** Huntington, *Schott* (Beq); Pennequid Barrens (Beq); Wyandanch, *Schott* (Beq); Massapequa, *Schott* (Beq); Brooklyn (Beq). A transition and upper austral species, moderately abundant in the eastern to southern parts of the State, less common northward (Bdy).

B. affinis var. **novae-angliae** Beq. Covert, Labrador Hollow (Bdy-CU); **LI:** Brooklyn, *Schott* (Beq).

B. borealis Kby. Keene Val. (Bdy, Beq); Mt. Skylight, 4800 ft., on *Potentilla tridentata* (Beq); Brant L. (Beq); Canton, Aug (Fris); Hermon, Aug (Fris); Syracuse, Aug (Fris); Covert, one female (Bdy-CU); Taughannock, one female, *CarlWillsey* (Bdy); Ithaca (Bdy-CU); Labrador Hollow, four females (Bdy-CU). A boreal and uncommon species, known only from the colder regions of the State (Bdy).

B. **bimaculatus** Cress. Keene Val. (Bdy-NYS); Onondaga Co, May (Fris); Syracuse, May, Jl (Fris); Glenora (Guerlac&Bdy); Ithaca (Rich-CU); Covert (Bdy-CU); Albany (Bdy-NYS); **SI,** *Ds* (Beq); **LI:** Orient, Farmingdale, Central Pk., Cold Sp. Harb., Oakdale, Yaphank (Beq). A transition and austral species, scarce in NY and largely confined to the warmer districts (Bdy).

B. impatiens Cress. New Russia (Bdy-CU); Crater Club, Aug (Fris); Hermon, Aug, Sep, Canton, Aug (Fris); Newport (Bdy-NYS); Gloversville (Bdy-NYS); Syracuse, May, Aug–Sep (Fris); Oak Orchard Swamp, *Ds* (Beq); Otto; Castile, *EABradley*, Gannett Hill, Ontario Co, 2000 ft., *Guerlac* (Bdy); Covert (Bdy-CU); Ithaca; Taughannock (Bdy-CU); Labrador Hollow (Bdy-CU); Ft. Plain (Bdy-NYS); Delmar, Albany, Karner, Cropseyville, Easton (Bdy-NYS); White Plains (Beq); Ramapo Mts. (Beq); Ft. Montgomery (Beq); W. Nyack (Beq); Yonkers (Beq); Van Cort. Pk. (Beq); **SI** (Beq); **LI:** Coram, *Schott* (Beq); Orient, Springs, Gardiners I., Brooklyn, *Eng,* Rockaway, *Schott,* Wyandanch, Amagansett, Yaphank (all Beq); Forest Hills (Bdy-CU). A very abundant species everywhere except in the mountains, where it is less common and probably absent from the higher altitudes (Bdy).

B. ternarius Say. Keene Val. (Bdy, Beq); New Russia (Bdy-CU); Mineville, *DReis* (Bdy); Crater Club, Aug (Fris); Chapel Pond (Bdy); Plattsburg (Beq); Saranac L. (Beq); north face of Mt. Marcy (Bdy-CU); Cranberry L., Jl (Fris); St. Lawrence Co, Aug (Fris); Canton, Aug (Fris); Hermon, Aug (Fris); Syracuse, May (Fris); Castile, *EABradley*; Gannett Hill, Ontario Co, 2000 ft., *Guerlac*; Cinnamon L., Lake Bluff (Bdy); Ithaca (Bdy-CU); Labrador Hollow (Bdy-CU); E. Jewett (Beq); Oliverea, *Ds* (Beq); Cooks Falls (Beq); Debruce (Beq). Essentially a Canadian and northern transition species, abundant in the Adirondacks, scarce about Ithaca, absent

from the LI districts (Bdy). Smith's record for SI was based upon misidentification; the species is not found near NYC (Beq).

B. ternarius expallidus Ckll. Wilmington, Keene Val. (Fris-NYS).

B. perplexus Cress. Keene Val., *Not* (Beq); New Russia (Bdy-CU); Cliff Mt. (Beq); Upper Ausable L. (Beq); Crater Club, Aug (Fris); Mt. Marcy (Beq); Cranberry L., Jl (Fris); St. Lawrence Co, Aug (Fris); near Pulaski, *Ds* (Beq); Hermon, Aug (Fris); Syracuse, May, Jl (Fris); Ithaca, Sep (Fris, Bdy); Slaterville (AAdams); Labrador Hollow (Bdy-CU); New Salem, Delmar, *Bish* (Bdy-NYS); Big Ind. Val. (Beq); Oliverea (Beq); New Kingston (Bdy-CU); Debruce, *Ds* (Beq); Ft. Montgomery, *Schott* (Beq); W. Nyack (Beq); **LI:** Cold Sp. Harb., Wyandanch, *Schott* (Beq). In the Adirondacks, I have taken it at 4800–5000 ft., where it visits *Vaccinium uliginosum* (Beq). A Canadian species running well south in the Allegheny Mts. Moderately common in the northern and central part of the State, but rare in the LI district (Bdy).

B. vagans F. Sm. Keene Val., *Diven, Not* (Bdy, Beq); New Russia (Bdy); Long L. (Bdy); Mt. Marcy, Upper Ausable L., Mt. Skylight (Beq); Mt. Whiteface, *Ds* (Beq); Mt. McIntyre (Bdy-CU); Crater Club, Aug (Fris); Cranberry L., Jl (Fris); Saranac (Bdy-NYS); Wells, *Yg* (Bdy-NYS); Newport (Bdy-NYS); Old Forge (Bdy-NYS); Hermon, Canton, Aug (Fris); St. Lawrence, Aug (Fris); Syracuse, Jl–Aug (Fris); Clyde (Bdy-NYS); Gannett Hill, Ontario Co, 2000 ft., *Guerlac*; Castile, *EABradley*; Cattaraugus (Bdy-CU); Covert (Bdy-CU); Ithaca, Sep (Fris); Taughannock (Bdy-CU); McLean (Bdy-CU); Labrador Hollow (Bdy-CU); Karner, New Salem (Bdy-CU); Oliverea, Big Ind. Val. (Beq); Poughkeepsie (Bdy-CU); New Kingston (Bdy-CU); Callicoon, *Ds* (Beq); Pine I., *Ds* (Beq); Ft. Montgomery, *Schott* (Beq); **SI**, *Ds* (Beq); **LI:** Cold Sp. Harb., Oakdale, *Schott*, Gardiners I., Flatbush (Beq); Wyandanch, *Schott* (Beq); Half Way Hollow Hills, Montauk, Amagansett, Orient, all *Ds* (Beq); Jamaica, *Schott* (Beq); Riverhead (Bdy-CU). The most abundant species of Bombus throughout the greater part of the State. Common, although perhaps less so than others in even the high Adirondacks (Bdy). I have taken this species in the Adirondacks at an altitude of 5000–5200 ft., where it visits *Solidago alpestris*, *Vaccinium uliginosum*, *Oxycoccus oxycoccus*, and *Potentilla tridentata* (Beq).

B. vagans var. **coctus** Beq & Plath. **LI:** Flushing, *Eng* (Beq&Plath).

B. fervidus (Fab.). Canton, May, Hermon, Aug (Fris); Otter L. (Bdy-CU); DeRuyter (Bdy-CU); Pike (Bdy-NYS); Geneva, May (Fris); Covert (Bdy-CU); Ithaca, Sep (Bdy, Fris); Labrador Hollow (Bdy-CU); Monticello, *Schott* (Bdy-CU); Debruce, *Ds* (Beq); Mosholu, *Ds* (Beq); White Plains (Beq); Van Cort. Pk. (Beq); **SI** (Beq); **LI:** E. New York, Aqueduct, Greenport, *Ds* (Beq); Flatbush, Jamaica, Little Neck, Oakdale, *Schott* (Beq); Sands Pt., *Bs* (Beq). Essentially a southern species, and one of our most abundant in southern and central NY. Not known from the Adirondacks and Catskills (Bdy).

B. fervidus var. **dorsalis** Cress. Covert, Labrador Hollow (Bdy-CU).

B. americanorum (Fab.) (*pennsylvanicus* Geer). Mt. Marcy (Bdy-NYS); Otter L. (Bdy-CU); Syracuse, Oct (Fris); Canandaigua L. (Bdy-NYS); Covert (Bdy-CU); Ithaca (Bdy-CU); Taughannock (Bdy-CU); Slaterville (AAdams); Albany (Bdy-CU); White Plains (Beq); **SI** (Beq); **LI:** Oakdale, Coram, *Schott* (Beq); Long Beach, Orient, Gardiners I. (Beq); Wyandanch, *Schott* (Beq); Aqueduct, Montauk, Amagansett, *Ds* (Beq). An abundant southern species, common as far north as central NY, but rare in the mountains (Bdy).

(Subgenus **BOMBIAS** Robertson)

B. auricomus Robts. Manlius, *SmHH* (Richmond-CU); Covert (Bdy-CU).

B. separatus Cress. New Russia (Bdy-CU); Otter L. (Bdy-CU); Canandaigua L. (Bdy-NYS); Covert (Bdy-CU); Ithaca (Rich, Bdy-CU); Norton's Landing, Cayuga L.; west shore, Cayuga L. (AAdams); Labrador Hollow (Bdy-CU); Karner (Bdy-NYS); **SI**, *Ds* (Beq); **LI**: Bellmore, *Eng* (Beq); Long Beach, Orient, Pennequid Barrens, Gardiners I. (Beq); Wyandanch, *Schott* (Beq); Montauk, Yaphank, *Ds* (Beq). A southern species, rare in central NY and the Adirondacks, more common in the LI district (Bdy).

B. rufocinctus Cress. Crater Club (Fris-SyracuseU); Lake Bluff, Sep 3, 1912 (color var. 6, Bdy); Castile, one male, May, *ECBradley* (Bdy-CU). Essentially a Rocky Mountain species, although known from eastern Canada and Vt. To be counted as our rarest species of Bombus.

PSITHYRUS Lepeletier: USURPER BEES

(Social parasites of bumblebees.)

P. laboriosus (Fab.). Crater Club, Aug (Fris); St. Lawrence Co, Aug (Fris); Hermon, Aug (Fris); Cranberry L., Jl (Fris); Otter L. (Bdy-CU); Syracuse, Sep (Fris); Geneva, May (Fris); Covert (Bdy-CU); Norton's Landing, Cayuga L., *SmHH* (Cress-CU); west shore, Cayuga L. (AAdams); Ithaca, *AAdams, RLounsberry* (Bdy-CU); Spring Lake (Bdy-CU); Taughannock (Bdy-CU); Hudson Falls (Bdy-NYS); **SI** (Beq); **LI**: Kings Pk., Orient (Beq); Wyandanch, Huntington, *Schott* (Beq); Wading R. (Schott). A transition and upper austral species extending well into Canada. Our most common species. A form of this species with all-black abdomen in the female is not uncommon around Ithaca. It has been taken by Armand Adams, Victor Skiff, Royden Lounsberry, J. C. Bradley, Henry Guerlac, and others, at several localities (Bdy).

P. insularis (Sm.). Keene Val., *Not* (Beq, Fris); Ithaca (Franklin-CU).

P. ashtoni (Cress.). Keene Val., *Not* (Beq); Mt. Skylight, 4800 ft., on *Potentilla tridentata* (Beq); Hermon (Fris); Gannett Hill, Ontario Co, 2000 ft., *Guerlac*; Covert (Bdy-CU); west shore, Cayuga L. (AAdams); Ithaca (Cress, Franklin-CU); Taughannock (Bdy-CU); Labrador Hollow (Bdy-CU); Big Ind. Val. (Beq); Oliverea, *Ds* (Beq); Ft. Montgomery (Schott). This species seems to be confined to the central and northern part of the State; elsewhere its chief distribution seems to be in the Canadian and Northern Transition zones (Bdy).

P. fernaldae Franklin. St. Lawrence Co, Aug (Fris); Brant L. (Franklin); Cranberry L., Jl (Fris); Otto (Franklin); Gannett Hill, Ontario Co, 2000 ft., one male, *Guerlac&Bdy*; Ithaca (Franklin); McLean (Beq). A boreal species. known here only from the central and Adirondack regions and very rare (Bdy).

FAMILY **APIDAE**

APIS Linnaeus

A. mellifica L. HONEY BEE. Generally distributed throughout the State.

CLASS ARACHNIDA

ORDER ARANEAE

Compiled by C. R. CROSBY and S. C. BISHOP

SUBORDER ARANEAE THERAPHOSAE

FAMILY ATYPIDAE

ATYPUS Latreille

A. niger Htz. Cornwall, May (Em).

SUBORDER ARANEAE VERAE

FAMILY ULOBORIDAE

HYPTIOTES Walckenaer

H. cavatus Htz. Plattsburg, Sep; Wilmington Notch, Aug; Chapel Pond, Je; Ar' st's Brook, Je; Manlius, Aug; Lake Bluff, Sep; Lewiston, Sep, *Plm*; Silver Cr Sep; Montour Falls, Sep–Oct; Perry City, Sep; Taughannock Falls, Oct; Ith ca, Sep; Waldorf, Sep, *Yg*; Burden L., Aug; Valcour I., Aug; Elizabeth I., Aug; Juanita I., Pearl Pt., Jl; Catskill, Aug, *Chap*; Poughkeepsie, *vanIngen;* Highland, Aug, *Wlf*; **LI:** Riverhead, Sep; Sea Cliff, Sep, *Wlf*, *Taub*.

ULOBORUS Latreille

U. americanus Wlck. Onondaga Co (Britcher); Penn Yan, May; Montour Falls, Sep; Ithaca, Aug, Nov; Enfield Glen, Oct; Taughannock Falls, Oct; Valcour I., Aug; Oakland Val., May; **LI:** Cold Sp. Harb., Je, *Anderson*.

FAMILY DICTYNIDAE

AMAUROBIUS C. Koch

A. americanus Em. Onondaga Co (Britcher); Ithaca, May; Enfield Glen (Bks); Paradise, May; **LI:** Bayville, Aug (Bks).

A. bennetti Blackw. Wilmington Notch, Aug; Wilmington, Aug; Mt. Whiteface, Aug; L. Placid, Sep, *Plm*; Saranac L., Sep, *Plm*; Uphill Br., Opalescent R., Jl; Paul Smiths, Je, *Babiy*; Raquette L., Sep, *Plm*; Chateaugay L., Sep, *Plm*; Big Burnt L., Jl; Gloversville, Sep, *Alex*; Onondaga Co (Britcher); Lake Bluff, Sep; Lewiston, Sep, *Plm*; Clarksburg, Sep; Stow, Sep; Olcott, Sep; Rock City, Sep; Savona, Sep; Oak Ridge, Canandaigua L., Aug; L. Keuka, Sep; Taughannock Falls, Oct; Connecticut Hill, Nov; Spencer, Aug; Ithaca, Mar–Sep; McLean, May; Voorheesville, Je; Kenwood, May, *Plm*; Crystal L., Jl; S. Westerlo, May; Feura Bush, Dec; Queechy L. May, *Schoon*; Vrooman's Nose, May; Valcour I., Aug; Pearl Pt., Juanita I., Jl; Elizabeth I., Aug; Riders Mills, May, *Chrisp*; L. Charlotte, Je; Oakland Val., May; Cragsmoor, May; Poughkeepsie (Em); Hunter, Je, Aug, *Schoon*; Stamford, May, *Chrisp*; Sterlington, May; Larchmont, Sep, *Wlf*; **LI,** Nov-Dec (Bks).

A. borealis Em. Mt. Whiteface, Aug; Wilmington Notch, Jl–Aug; Wilmington, Aug; Newcomb, Jl; Charley L., Ap; Old Forge, Oct, *Sib*; Italy Hill, Oct; Connecticut Hill, Aug; McLean, May, Jl; Meredith, May; Stamford, Oct; Maratanza L., May; Pinekill, May.

A. ferox Walck. Onondaga Co (Britcher); Clyde, Ap, May; Ithaca, Mar, May; Albany, Je; Vrooman's Nose, May; **LI,** Sep (Bks).

A. tibialis Em. Mt. Whiteface, Aug (Em).

DICTYNA Sundevall

D. bicornis Em. Lake Bluff, Sep; **LI:** Sea Cliff, Je; Bayville (Bks); Watermill, Je; Wading R., Je; Riverhead, Sep.

D. bostoniensis Em. Sodus Pt., Jl; **SI:** Tottenville, Je; **LI:** Bay Shore, Jl (Bks); Quogue, Je.

D. brevitarsus Em. Ithaca (Em); Little Pond, Orange Co, May.

D. cruciata Em. Ithaca (Bks); McLean, May–Jl; Labrador Pond, Je; **LI:** Flushing, Je; Long Pond, Suffolk Co, Je.

D. foliacea Htz. Wilmington Notch, Aug; Wilmington, Aug; Sacandaga Pk., Je, *Alex*; Wells, May, *Yg*; Trenton Falls, Je; Onondaga Co (Britcher); Southwest Oswego, Jl; Williamson, Je; Clyde, May; Crusoe L., May; Lake Bluff, Ap; Marilla, Jl; Pt. Breeze, Je–Jl; Letchworth Pk., Jl; Penn Yan, Aug; Taughannock Falls, Oct; Enfield Glen, Je; Cinnamon L., Jl; Ithaca, May, Je, Oct; Ringwood, Jl; McLean, May, Jl; Caroline Center, May; E. Greenbush, Je; Albany, May–Je; Kenwood, May, *Yg*; Tackawasick Pond, Je; Waldorf, Sep, *Yg*; Juanita I., Pearl Pt., Jl; Cossayuna L., May, *Schoon*; Valley Falls, May, *Yg*; Schodack Landing, Je; L. Charlotte, Je; Riders Mills, May, *Chrisp;* Wappingers Falls, May; Port Jervis, May; Oakland Val., May; Sterlington, May; **LI:** Cold Sp. Harb., Je, *Anderson*; Sea Cliff, Je.

D. frondea Em. Newcomb, Jl; Cranberry L. (Barrows); Taughannock Falls, Jl; Ithaca (Bks); Clayville, Je; L. Erie beach, Je; Shaker Road, Albany Co, Je; **LI:** Sea Cliff, Aug (Bks); Long Pond, Suffolk Co, Je.

D. longispina Em. Sacandaga Pk., Je, *Alex*; Trenton Falls, Je; Ithaca (Bks).

D. maxima Bks. Old Forge, Oct (immature); Paul Smiths, Je, *Babiy*; Ithaca (Bks); Caroline Center, May; McLean, May; Labrador Pond, Je; Stamford, May, *Chrisp*.

D. minuta Em. Cinnamon L., Je; Ithaca, Ap–May; McLean, Je; Riders Mills, May, *Chrisp*; Sterlington, May; **LI,** Sep (Bks).

D. quadrispinosa Em. Black Br., Je; Vrooman's Nose, May.

D. rubra Em. Onondaga Co (Britcher).

D. sublata Htz. Cranberry L. (Barrows); Raquette Falls, Aug; Gloversville, Mar, *Alex*; Johnstown, Jl; Saratoga, Je; Labrador Pond, May, *Tarris*; Savannah, May; Lake Bluff, Ap; Pt. Breeze, Je; Olcott, Feb, *Dt*; Buffalo, Je; Keuka Pk., Nov; Stanley, May; Crosby, Ap; Ithaca, May; West Winfield, Je; Red Hook, Jl, *Plunk*; Poughkeepsie; Germantown, Je; Stamford, May, *Chrisp*; **LI** (Bks).

D. volucripes Key. Wilmington Notch, Aug; Newcomb, Jl; Speculator, Jl, *Yg*; Cranberry L. (Barrows); Peru, Je; Gloversville, Je–Jl, *Alex*; Onondaga Co (Britcher); Chautauqua Co, *Palmer*; Sodus, Jl; Oak Ridge, Canandaigua L., Aug; Junius, Je; Penn Yan, Sep; Ithaca, Jl–Aug; Ringwood, Jl; Deruyter L., Jl; Trenton Falls, Je; Albany, May; Thacher Pk, Je; Valcour I., Aug; Germantown, Je; Little Pond, Orange Co, May; Oakland Val., May; **LI** (Bks).

LATHYS Simon

L. foxii Marx. Barrington, Oct; Ithaca, *Comst*; Enfield Glen, Ap; Altamont, Ap; Vrooman's Nose, May; Silver Bay, Sep, *Leon*; Juanita I., Aug; L. Charlotte, Je; Cragsmoor, May; Sam's Pt., Ulster Co, May.

SCOTOLATHYS Simon

S. maculata Bks. **LI:** Riverhead, Ap–May.

S. pallida Marx. Newfane, Oct; West Barre, Sep; Rock City, Sep; Rye Pt., Sep; Savona, Sep; Ithaca, Aug–Oct; Freeville, Aug; Labrador Pond, Je; Meadowdale, May; Feura Bush, Dec; Voorheesville, May–Je; Karners, Mar; Vrooman's Nose, May; Valcour I., Aug; Juanita I., Jl–Aug; Storm King Mt., Jl; Sam's Pt., and Maratanza L., May; Oakland Val., May; **LI:** Baiting Hollow, Ap–May; Southold, Ap; Riverhead, May.

FAMILY SICARIIDAE

SCYTODES Latreille

S. thoracica Lat. Ithaca, Jl; Onondaga Co (Britcher); Rensselaer, Aug, *Schoon*; Troy (Htz); **LI:** Sea Cliff (Bks).

FAMILY OONOPIDAE

ORCHESTINA Simon

O. saltitans Bks. **LI:** Sea Cliff, Jl (Bks).

FAMILY DYSDERIDAE

ARIADNA Audouin

A. bicolor Htz. Wappingers Falls, May; **LI** (Bks).

DYSDERA Latreille

D. crocata C. Koch. Syracuse (Britcher); Ithaca, Jl (Comst); Rensselaer, Ap, *Kilf*; Poughkeepsie, *vanIngen*.

FAMILY GNAPHOSIDAE

CALLILEPIS Westring

C. imbecilla Key. Ithaca (Bks); **LI:** Cold Sp. Harb., *Bryant*; Sea Cliff (Bks).

CESONIA Simon

C. bilineata Htz. Spafford (Britcher); L. Keuka; Ithaca, Aug (Comst); Oak Ridge, Canandaigua L., Aug; Valcour I., Aug; Elizabeth I., Aug; Poughkeepsie, *vanIngen*; Waterford, Ap; Larchmont, Sep, *Wlf*; **LI,** Sep (Bks).

DRASSODES Westring

D. neglectus Key. Adirondack Lodge, Jl; Onondaga Co (Britcher); Lake Bluff, Sep; Rochester, Nov, *Chad*; Crocketts, Sep, *Chap*; Connecticut Hill, Oct; Ithaca, Aug–Oct, *Comstock* (Bks); McLean, Je; Lawson L., May; Crystal L., Jl; Mud Hollow Pond, Je; S. Westerlo, May; Dormansville, Je; Vrooman's Nose, May; Hunter, Je, *Plm*; Elizabeth I., Aug; Juanita I., Pearl Pt., Aug; Black Mt., Aug; Stamford, Je; **LI:** Gardiners I., May.

DRASSYLLUS Chamberlin

D. aprilinus Bks. **LI:** Sea Cliff, *Bks.*

D. blandus Bks. Ithaca (Bks).

D. depressus Em. Onondaga Co (Britcher); Dunkirk; Ithaca, Oct (Bks); Danby, May; Albany, Je; Voorheesville, Je; Rensselaer, Jl; Dormansville, Je; **LI:** Sea Cliff, *Bks.*

D. fallens Chamb. **LI:** Sea Cliff (Chamb).

D. frigidus Bks. Gloversville, Mar; Ithaca, Feb (Bks); **LI:** Sea Cliff, Sep (Bks).

D. rufulus Bks. Onondaga Co (Petrunkevitch); Ithaca, Sep–Oct (Bks); Lake Bluff, Sep; **LI:** Cold Sp. Harb. (Em); Sea Cliff (Em); Riverhead, Sep.

D. virginianus Chamb. **LI:** Sea Cliff (Chamb).

GEODRASSUS Chamberlin

G. auriculoides Barrows. Greenville, Ap; Wappingers Falls, May.

G. phanus Chamb. **LI:** Sea Cliff (Chamb).

GNAPHOSA Latreille

G. brumalis Thor. Mt. Marcy, Jl, 5000 ft.; Mt. Whiteface, Aug.

G. fontinalis Key. Ithaca (Bks).

G. gigantea Key. Mt. Whiteface, Aug; Adirondack Lodge, Jl; N. Elba, Jl; Upper Jay, Sep, *Plm*; Chapel Pond, Je; Paul Smiths, Je, *Babiy*; Gloversville, Ap, Aug, *Alex*; Onondaga Co (Britcher); Ithaca, Jan, Jl (Comstock); Freeville, *Bks;* McLean, Je, *Bissell*; Danby, May; Valcour I., Aug; Dormansville, Je; Voorheesville, Je, Aug; Normansville, Je; Mud Hollow Pond, Je; L. Charlotte, Je; Vrooman's Nose, May; Juanita I., Jl; Black Mt., Washington Co, Aug; Elizabeth I., Jl–Aug; Hunter, Je, *Plm*; Sullivan Co (Key); Poughkeepsie (Em); NYC (Bks).

G. parvula Bks. L. Placid, Sep, *Plm*; Gloversville, Mar, *Alex*; Crystal L., Jl; Mt. Lebanon, May, *Chrisp*; **LI:** Cold Sp. Harb., Jl, *Bryant*; Riverhead, Je; Montauk Pt., May.

G. sericata L. Koch. **SI:** Tottenville, Je; **LI:** Sea Cliff, *Bks.*

HAPLODRASSUS Chamberlin

H. hiemalis Em. Ithaca, May; Freeville; McLean, Je.

H. signifer C. Koch. Onondaga Co (Britcher); Ithaca; Pike Pond, Rensselaer Co, Je; **LI:** Sea Cliff, *Bks*; Gardiners I., May.

HERPYLLUS Hentz

H. vasifer Walck. Wells, Je–Jl, *Yg*; Sacandaga Pk., Je, *Alex*; Gloversville, May, *Alex*; Onondaga Co (Britcher); Lake Bluff, Jl, Sep; Clyde, Aug; Otto, Jan, *Comstock*; Wilmurt, Aug, *Plm*; Rochester, Nov; Hemlock, Aug; L. Keuka, Ap, Sep–Oct; Oak Ridge, Canandaigua L., Aug; Taughannock Falls, Oct; Ithaca, Sep, Nov; Freeville, Sep; Juanita I., Jl; Albany, Jl, *Hartman*; Poughkeepsie, *vanIngen*; **LI:** Lynbrook, Oct; Sea Cliff, *Bks.*

LITOPYLLUS Chamberlin

L. rupicolens Chamb. **LI:** Sea Cliff (Chamb).

POECILOCHROA Westring

P. montana Em. Ithaca, Mar (Bks).

SERGIOLUS Simon

S. variegatus Htz. Silver Bay, Sep, *Leon*; Ithaca, May, *Bks*, Jl, *Bryant*; Feura Bush, Dec; **LI:** Long Pond, Suffolk Co, Je.

SOSTICUS Chamberlin

S. insularis Bks. **LI:** Sea Cliff (Bks).

ZELOTES Gistel

Z. duplex Chamb. **LI:** Sea Cliff.

Z. subterraneus C. Koch. Mt. Whiteface, Aug; Mt. Marcy, Jl; Crater Club, Essex Co, Aug; Cranberry Cr., Aug; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca (Bks); Karner, Ap; Mud Hollow Pond, Je; Voorheesville, Je; Pearl Pt., Aug; Juanita I., Jl; Riders Mills, May; Stamford, May, *Chrisp*; Hunter, Aug; **LI:** Sea Cliff, *Bks*; Montauk Pt., May; Gardiners I., May.

FAMILY PHOLCIDAE

PHOLCUS Walckenaer

P. phalangioides Fuess. Ithaca, all months in buildings; Syracuse (Britcher); Albany, May, Sep, *Yg*; Cobleskill; Catskill, Aug–Sep, *Chad*; Poughkeepsie, *vanIngen*; **LI:** Brooklyn (Bks).

SPERMOPHORA Hentz

S. meridionalis Htz. Ithaca, Jl; Poughkeepsie, *vanIngen*; **LI** (Bks).

FAMILY THERIDIIDAE

ANCYLORRHANIS Simon

A. hirsutum Em. Wolcott, May; Olcott, Sep–Oct, *Dt*; Clarksburg, Sep; L. Keuka, Sep–Oct, Dec; Alpine, Nov; Rye Pt., Sep; Connecticut Hill, Aug, Oct–Nov; Enfield Glen, May, Oct; Ithaca, May, Aug, Nov; Freeville, Oct; McLean, Jl; Jenksville, Oct; Delaware L., May; Accord, Mar; **SI:** Clove Val., Nov; **LI:** Sea Cliff (Em).

ARGYRODES Simon

A. cancellatus Htz. Onondaga Indian Reservation (Britcher); **LI:** Sea Cliff (Bks); Cold Sp. Harb. (Em).

A. trigonum Htz. Penn Yan, May, Aug; Onondaga Co (Britcher); Letchworth Pk., Jl; Enfield Glen, Je, Oct; Ithaca, Jl, Oct; Albany (Em); Riders Mills, May; Oakland Val., May; **LI,** Jl (Bks).

ASAGENA Sundevall

A. americana Em. Gloversville, Mar–Ap, *Alex*; Barneveld, May; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, May–Je, Oct, Nov; Schoharie, May (Em); Albany, Ap; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff, Je (Bks); Baiting Hollow, May; Long Pond, Suffolk Co, Je; Riverhead, Je.

CRUSTULINA Menge

C. guttata Wider. Cranberry Cr., Aug; Onondaga Co (Britcher); Ithaca, Nov–Dec; Black Mountain Pt., Washington Co, Aug; Kenwood, Ap, *Chad*; **LI:** Sheepshead Bay, May; Southold, Ap; Baiting Hollow, Ap; Riverhead, Ap–May; Montauk Pt., May.

C. sticta Cambr. Weedsport, Ap; Ithaca, Mar–May; Saratoga Sps., Ap; Rensselaer, Ap, *Schoon*; Guilderland Center, May; Thacher Pk., May; Trenton Falls, Je; Little Pond, Orange Co, May.

DIPOENA Thorell

D. buccalis Key. Enfield Glen, Aug, *Wlf, Taub*; NY (Marx); **LI:** Long Pond, Suffolk Co, Sep, *Chap*.

D. nigra Em. Adirondack Lodge, Jl; Newcomb, Jl; Johnstown, Jl; Onondaga Co (Britcher); Westview, Jl; Letchworth Pk., Jl; Howard, Jl; Connecticut Hill, Je, Oct; Ithaca, Je, Aug; McLean, May, Jl; Labrador Pond, Je; Ringwood, Tompkins Co, Je, Oct; Trenton Falls, Je; Valcour I., Aug; Juanita I., Jl; Oakland Val., May; Larchmont, Sep, *Wlf*; **LI:** Long Pond, Suffolk Co, Je.

D. pallida Em. **LI:** Riverhead, Ap.

ENOPLOGNATHA Pavesi

E. marmorata Htz. Johnstown, May, *Alex*; Onondaga Co (Britcher); Sodus Pt., Jl; Taughannock Falls, Oct; Ithaca, May, Jl; Rensselaer, Je, *Schoon*; Albany, Ap, Aug, *Yg, House*; Normansville, Jl; Claverack, Mar; Wappingers Falls, May; Highland, Ap; Oakland Val., May; **SI:** Tottenville, Je; **LI** (Bks).

E. pallida Em. Ithaca, May.

EURYOPIS Menge

E. argentea Em. **SI:** Clove Val., Nov.

E. funebris Htz. Newcomb, Jl; Onondaga Co (Britcher); Letchworth Pk., Jl; Ithaca, Aug, Oct; Thacher Pk., Je; Valcour I., Aug; **LI:** Wading R., Je; Long Pond, Suffolk Co, Je.

E. quinque-maculata Bks. **LI:** Wading R., Sep, *Chap*.

E. spinigera Cambr. **LI:** Riverhead, Sep.

LATRODECTUS Walckenaer

L. mactans Fab. Lewiston, Sep, *Plm*; **LI:** Woodhaven, *Ditmars*.

LITHYPHANTES Thorell

L. corollatus L. **LI:** Glen Cove, Jan, Oct (Bks); Bayville, Jan, Oct (Bks); Baiting Hollow, May.

MYSMENA Simon

M. guttata Bks. **LI,** Je, Oct (Bks).

PAIDISCA Bishop and Crosby

P. marxi Cros. **LI:** Riverhead, Ap–May.

PEDANOSTETHUS Simon (See *Robertus*)

RHOMPHAEA L. Koch

R. fictilium Htz. Onondaga Co (Britcher); **LI:** Sea Cliff, Sep–Oct (Bks).

ROBERTUS Cambridge

R. fuscus Em. Mt. Whiteface, Aug; Uphill Br. and Opalescent R., Jl; High Falls, Aug; Wilmington Notch, Aug.

R. palustris Bks. Old Forge, Oct, *Sib*; Howland I., Nov; Ithaca, Feb, *Bks*; McLean, May; Rensselaer, May, *Schoon*; Maratanza L., May; Suffern, May; **LI:** Flushing, Nov.

R. pumilus Em. Auger Pond, Nov; Cranberry Cr., Aug; Clarksburg, Sep; West Barre, Sep; Savona, Sep; Italy Hill, Oct; Egleston's Glen, Sep; Ithaca, May; McLean, Ap–May; Ringwood, May; Larchmont, Sep, *Wlf*.

R. riparius Key. Upper Jay, Sep, *Plm*; Wilmington Notch, Jl–Aug; High Falls, Aug; Wilmington, Aug; Elizabethtown, Aug; Old Forge, Oct; Howland I., Nov; Cascade, Owasco L., Nov; Connecticut Hill, Oct; Guyanoga, Je; Enfield Glen, Aug; Ithaca, Mar, Dec; Freeville, Sep; Ringwood, Je; McLean, Ap–Je; Labrador Pond, Je; W. Winfield, Je; Rensselaer, May; Silver Bay, Sep, *Leon*; Pearl Pt., Je; Nassau, Aug; Highland, Mar; Maratanza L., May; Pinekill, May; Oakland Val., May; **LI:** Southold, Ap; Riverhead, Ap, Sep; Long Pond, Suffolk Co, Je.

R. spiniferus Em. Karner, Mar; Goshen, May.

R. terrestris Em. Ithaca, *Em*; Cornwall, *Em*.

SPINTHARUS Hentz

S. flavidus Htz. Taughannock Falls, Oct; Ithaca, Aug–Sep; **LI,** Aug (Bks).

STEATODA Sundevall

S. borealis Htz. Wilmington, Aug; L. Placid, Sep, *Plm*; Watertown, Sep, *Plm*; Green L., Fulton Co, Jan, *Dt*; Gloversville, Mar–Ap, *Alex*; Wells, Jl, *Yg*; Onondaga Co (Britcher); Clyde, Aug, Dec; Cayuga, Aug; Rochester, Nov; Silver Cr., Sep; L. Keuka, May, Je, Oct; Bluff Pt.; Cayuta L., Nov; Ithaca, all months; Dormansville, Je; Albany, May, Aug, *Chrisp*; Thacher Pk., May–Je; Kenwood, Ap, *Chad*; Greenville, Ap; Rensselaer, Jan, Oct, *Schoon*; Nassau, Je, *Schoon*; Valcour I., Aug; Juanita I., Jl; Cossayuna L., May, *Schoon*; Waterford, Jan, *Chrisp*; Stockport Sta., Sep; Catskill, Je, Sep, Dec, *Chad*; Poughkeepsie, *vanIngen*; Suffern, May; Goshen, May; Hunter, Je; **SI:** Jan, *Ds*; Clove Val., Nov; **LI:** Sheepshead Bay, Je–Jl; Jamaica, Nov; Riverhead, Aug.

TEUTANA Simon

T. triangulosa Walck. Onondaga Co (Britcher); Ithaca, Jl–Sep; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff (Bks).

THEONOE Simon

T. stridula Cros. Paul Smiths, Je, *Babiy*; West Barre, Sep; Penn Yan, May; Alpine, Nov; Enfield Glen, Oct; Ithaca, Oct; McLean, Ap–Jl; Labrador Pond Je; Altamont, Ap; Voorheesville, May–Je; Little Pond, Orange Co, May; **LI:** Southold, Ap; Riverhead, Je, Aug.

THERIDION Walckenaer

T. albidum Bks. **LI:** Sea Cliff (Bks).

T. aurantium Em. Axton (Em); Wilmington Notch, Je, Aug (Em); Newcomb, Jl; Labrador Pond, Je.

T. blandum Htz. **LI,** Jl (Bks).

T. cinereum Em. Peru, Je; Danby, May; **LI:** Sea Cliff (Em).

T. differens Em. Wilmington, Aug; Wilmington Notch, Jl; L. Tear, Jl; Axton (Em); Black Br., Je; Peru, Je; Wells, May, *Yg*; Saratoga, Je; Gloversville, Je, *Alex*; Thacher Pk., May; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Webster, Jl; Pt. Breeze, Je; Howard, Jl; N. Lansing, Je; Penn Yan, May, Aug; Taughannock Falls, May; Enfield Glen, May; Ithaca, May–Jl; Freeville, Aug; McLean, May, Sep; Labrador Pond, May, Je, *Tarris*; Trenton Falls, Je; Clayville, Je; Dormansville, Je; S. Westerlo, May; Vrooman's Nose, May; L. Charlotte, Je; Burden L., Aug, *Schoon*; Tackawasick Pond, Je; Valcour I., Aug; Pearl Pt., Juanita I., Jl–Aug; Bumps Pond, Jl; Little Pond, Orange Co, May; Oakland Val., May; **LI:** Baiting Hollow, May; Shinnecock Hills, Je; Long Pond, Suffolk Co, Je.

T. frondeum Htz. Mt. Marcy, Sep; Wilmington Notch, Jl; Black Br., Je; Cranberry L. (Barrows); Wells, Jl, *Yg*; Sacandaga Pk., Je, *Alex*; Mountain L., Je, *Alex*; Woodworth's L., May, *Alex*; Johnstown, Aug, *Alex*; E. Caroga L., Aug, *Hoffman*; Baldwinsville, *Bks*; Trenton Falls, Je; Oneida, Jl; Southwest Oswego, Jl; Lake Bluff, Sep; Letchworth Pk., Jl; Lakeside Pk., Orleans Co, Jl; Westview, Livingston Co, Jl; Bean Station, Steuben Co, Jl; Cinnamon L., Jl; Taughannock Falls, Je; Ithaca, Je, Aug; McLean, Jl; Deruyter L., Jl; Labrador Pond, Je; Elmira, Jl; Schenectady, Je; Albany, Je, Sep; Thacher Pk., Je; Rensselaer, Je–Jl; Central Nassau, Jl; Tackawasick Pond, Je; Valcour I., Aug; Hague, Aug; Poughkeepsie, *vanIngen*; Yonkers, Jl; **SI:** Richmond, Jl, *Burns*; **LI:** Cold Sp. Harb., Je; Sea Cliff, Je; Smithtown, Je; Jamaica, Je.

T. globosum Htz. Onondaga Co (Britcher); Central Nassau, Jl; **LI:** Cold Sp Harb. (Em).

T. kentuckyense Key. Letchworth Pk., Jl; Enfield Glen, Aug; Thacher Pk., Je; Stamford, May, *Chrisp*; **LI:** Long Pond, Suffolk Co, Je.

T. maxillare Em. Valcour I., Aug.

T. montanum Em. Mt. Whiteface, Aug; Mt. Marcy, Sep; L. Tear, Jl; Mt. McIntyre, Jl; Wilmington Notch, Aug; Artist's Brook, Je; Bumps Pond, Jl; Slide Mt., Je.

T. murarium Em. Wilmington, Aug; Cranberry Cr., Aug; Cranberry L. (Barrows); Trenton Falls, Je; Onondaga Co (Britcher); Southwest Oswego, Jl; Webster, Jl; Lakeside Pk., Jl; Marilla, Jl; Letchworth Pk., Jl; Penn Yan,

May, Aug; Cinnamon L., Jl; Cayuta L., Jl; Ithaca, Je; McLean, Jl; Spencer, Aug; Ringwood, Je; Albany, Jl; Dormansville, Je; Shelving Rock Mt., Jl; Elizabeth I., Jl; Red Hook, Jl; Wappingers Falls, May; **LI:** Sheepshead Bay, Jl; Yaphank, Aug, *Shoe*; Riverhead, Aug; Shinnecock Hills, Je; Water Mill, Je.

T. pennsylvanicum Em. **LI:** Cold Sp. Harb., Aug (Em).

T. rupicola Em. Onondaga Co (Britcher); Ithaca, Jan, Jl, Sep, Dec; Freeville, Aug; S. Westerlo, May; Poughkeepsie, *vanIngen*; Larchmont, Sep, *Wlf*.

T. sexpunctatum Em. Mt. Whiteface, Aug; Wilmington, Aug; Mt. Marcy, Sep; Mt. McIntyre, Jl; Avalanche Lake, Jl; Chapel Pond, Je; Uphill Br., Opalescent R., Jl; Onondaga Co (Britcher); Guyanoga, Je; Egleston's Glen, Sep; Connecticut Hill, Nov; Enfield, Aug, *Wlf*, *Taub*; Ithaca, May; Ringwood, May, *Dt*; Tackawasick Pond, Je; Pearl Pt., Jl.

T. spirale Em. Axton, *MacG&Houghton*; Keeseville, Je; Onondaga Co (Britcher); Howard, Jl; Loucks Pond, Jl; Stanley, May; Penn Yan, Aug; Levanna, Jl; Cinnamon L., Jl, Sep; Enfield Glen, Aug, Oct; McLean, Jl; Freeville, Aug; Trenton Falls, Je; Albany, Je, Jl; Vrooman's Nose, May; Riders Mills, May; Central Nassau, Jl; Tackawasick Pond, Je; Valcour I., Aug; Juanita I., Jl; Shelving Rock Mt., Jl; **LI:** Cold Sp. Harb., Je.

T. tepidariorum C. Koch. Wells, Jl, *Yg*; Gloversville, Aug, Oct, *Alex*; Baldwinsville (Bks); Cazenovia, Sep; Lake Bluff, Aug; Clyde; Rochester; Hemlock L., Aug; Irving, Sep, *Chad*; Cayuga, Oct; Naples, Aug; Ithaca; Albany, Jan, Aug–Oct; Slingerlands, Mar, *Wlf*; Rensselaer, Je, Oct, *Schoon*; Valcour I., Aug; Cossayuna L., May, *Schoon*; Poughkeepsie, *vanIngen*; Highland, Aug, *Wlf*; Kingston, Aug, *Schoon*; Catskill, Aug–Sep; Saugerties, Aug; **LI:** Sea Cliff, Je (Bks); Forest Hills, Sep; Jamaica, Oct–Nov, *Wlf*.

T. unimaculatum Em. Ithaca, Ap, Nov; Albany, Je; Voorheesville, Je; Rensselaer, Jl, *Schoon*; Tackawasick Pond, Je; Oakland Val., May; **LI:** Cold Sp. Harb., Je, *Anderson*; Shinnecock Hills, Je; Long Pond, Suffolk Co, Je.

T. zelotypum Em. Adirondacks (McCook); Bumps Pond, Jl.

THERIDULA Emerton

T. opulenta Walck. Cranberry L. (Barrows); Johnstown, Aug, *Alex*; Ithaca, Je; McLean, Je, Jl; Labrador Pond, Je; Apulia, Onondaga Co (Britcher); Albany, Je, Jl; Central Nassau, Jl; Oakland Val., May; **LI:** Cold Sp. Harb., Je, *Anderson*.

ULESANIS L. Koch

U. americana Em. Jamesville (Britcher); Marilla, Jl; Ithaca, Aug, *Wlf*, *Taub*; Mt. Marion, Oct, *Chad*; Oakland Val., May; **LI:** Riverhead, May.

FAMILY LINYPHIIDAE

ARAEONCUS Simon

A. pedalis Em. Mountain L., Ap; Altamont, Ap.

BATHYPHANTES Menge

B. alboventris Bks. Wilmington Notch, Aug; Mt. Whiteface, Aug; Malone, Oct; Little Falls, Jl; Castile, May; Enfield Glen, Oct; Sheldrake Sps., Nov; Ithaca, Oct, Nov; McLean, Sep; Rensselaer, Nov, *Schoon*; Riders Mills, May.

B. alpinus Em. Wilmington, Aug; Mt. Whiteface, Aug; Newcomb, Jl; Uphill Br., Opalescent R., Jl.

B. angulatus Em. Ithaca (Bks); Rye Pt., Sep; Crosby, Nov; Little Pond, Orange Co, May; **LI**, Jl (Bks).

B. bihamatus Em. Maratanza L., May.

B. brevis Em. Wilmington Notch, Aug (Em).

B. canadensis Em. Mt. Marcy, Jl.

B. complicatus Em. Uphill Br., Opalescent R., Jl.

B. concolor Reuss. Lake Bluff, Sep; Wayne Center, Mar; Ithaca, Mar–Sep, Nov–Dec; Albany, Jl; Rensselaer, May, *Schoon*; Coxsackie, Mar; Kingston, Aug, *Schoon*; Poughkeepsie, *vanIngen*; **LI**: Aug–Oct (Bks); Bergen Beach, Ap; Brooklyn, Oct; Sea Cliff (Em).

B. conicus Em. Ithaca, Ap, Nov–Dec; Little Pond, Orange Co, May.

B. crosbyi Em. Uphill Br., Opalescent R., Jl.

B. decoratus Bks. Ithaca, Sep (Bks); **LI** (Bks).

B. formicus Em. Honeoye Falls, Jl; Ithaca, Aug–Sep; Freeville, Aug (Bks); **LI**: Jl–Aug (Bks); Sea Cliff, *Em.*

B. furcatus Em. Mt. Whiteface, Aug (Em); Avalanche L., Jl.

B. inornata Em. (not *B. inornata* Bks.). Mt. Whiteface, Aug (Em).

B. intricatus Em. Crosby, Dec; Egleston's Glen, Oct; Shurger's Gorge, Nov; McLean, Ap.

B. luteolus Bks. Ithaca, Nov (Bks).

B. micaria Em. Guilderland Center, May; **LI**, Jl (Bks).

B. nigrinus Westr. Wilmington, Aug; Uphill Br., Opalescent R., Jl; Lake Bluff, Sep; Newfane, Oct; Richburg, Sep; Enfield Glen, Ap, Sep, Nov; Ithaca, Ap, Aug–Sep, Nov; McLean, Jl; Rensselaer, May, Aug, Nov, *Schoon*; Tackawasick Pond, Je; Riders Mills, May; Stamford, May; **LI**, Oct (Bks).

B. pallidus Bks. Ithaca, Ap, Oct, Dec (Bks).

B. subalpinus Em. Wilmington, Aug; Mt. Whiteface, Aug; Ithaca (Bks); Thacher Pk., Je.

B. tristis Bks. Ithaca, Nov (Bks).

B. unimaculatus Bks. Weedsport, Ap; Ithaca, Jl, Feb; **LI**: Riverhead, Ap; Montauk Pt., May.

B. zebra Em. Old Forge, Oct; Wilmington Notch, Jl–Aug; Wilmington, Aug; Mt. Whiteface, Aug; Auger Pond, Nov; Howland I., Nov; Richburg, Sep; Crosby, Dec; Enfield Glen, Oct; Ithaca, Sep–Oct; Freeville, May; McLean, Ap–May; Egleston's Glen, Oct; Silver Bay, Sep, *Leon*; Juanita I., Jl; Poughkeepsie, *vanIngen*; Slide Mt., Je; Maratanza L., May; Cragsmoor, May; Oakland Val., May; Stamford, May, *Chrisp*; Tuxedo, Oct, *Wlf.*

B. zygios Key. Ithaca, Jl; McLean, Ap; Poughkeepsie, *vanIngen*; **LI**, Oct (Bks).

CASEOLA Emerton

C. alticeps Em. Thacher Pk., May.

CERATICELUS Simon

C. alticeps Fox. **LI**: Baiting Hollow, Ap–May; Long Pond, Suffolk Co, Je; Cold Sp. Harb., Jl–Aug, *Bryant*; Riverhead, Ap, Sep.

C. atriceps Cambr. Wilmington Notch, Aug; Mt. Whiteface, Aug; Adirondack Lodge, Jl; Mt. McIntyre, Jl; L. Tear, Jl, Sep; Mt. Marcy, Sep; Chapel Pond, Je; Uphill Br., Opalescent R., Jl; Wells, Ap–May, *Yg*; Bumps Pond, Jl; Mountain L., Ap, *Alex*; L. Keuka, Dec; Enfield Glen, Oct; Ithaca, Feb-Ap, Oct; McLean, Ap–May, Oct; Jenksville, Oct; Onondaga Val., Je (Britcher); Hunter, Aug; Little Pond, Orange Co, May; Oakland Val., May.

C. bulbosus Em. McLean Bogs, May–Je; Tully, Oct (Britcher).

C. carinatus Em. Oakland Val., May.

C. emertoni Cambr. L. Tear, Jl; Black Br., Je; Sacandaga Pk., Je, *Alex*; Barneveld, Jl–Sep; Canastota, Nov; Pt. Breeze, Je; Letchworth Pk., Jl; Honeoye, Jl; Geneva, Nov; Bluff Pt., Sep; L. Keuka, Oct, Dec; Horseheads, Ap; Ithaca, Mar–Nov; McLean Bogs, Sep; Ringwood, May; Nassau L., Ap; Coxsackie, Mar; **LI:** Cold Sp. Harb., Jl–Aug; Oyster Bay, *Chamb*.

C. fissiceps Cambr. Wilmington Notch, Aug; Mt. Whiteface, Aug; Mt. Marcy, Aug; Chapel Pond, Je; Northumberland Township, Saratoga Co, Je; Cranberry Cr., Aug; Bumps Pond, Jl; Mountain Lake, Ap; Trenton Falls, Je; Syracuse (Britcher); N. Fair Haven, Jl; Lake Bluff, Sep; East Bay, Sep; Stow, Sep; Rock City, Jl–Aug; Letchworth Pk., Jl; Guyanoga, Je; Penn Yan, Aug; Crosby, Ap, Oct, Dec; L. Keuka, Je, Dec; Cinnamon L., Jl; Montour Falls, Oct; Taughannock Falls, Aug, Oct; Enfield Glen, May, Aug; Ithaca, Ap–Dec; Ringwood, Jl, Oct; Freeville, Jl–Aug, Oct; McLean Bogs, Ap–May, Jl; Spencer, Aug; Labrador Pond, Je; Owego, Dec; Tully, Oct; Jenksville, Oct; Apalachin, May; Voorheesville, Je; Riders Mills, May; Schodack Landing, Je; Tackawasick Pond, Je; Valcour I., Aug; Poughkeepsie, *vanIngen*; Slide Mt., Je; Highland, Mar; Oakland Val., May; Mountainville, May; Mt. Utsayantha, Oct; Larchmont, Sep, *Wlf*; **LI:** Farmingdale, Je; Riverhead, Ap–May, Aug; Long Pond, Suffolk Co, Je; Cold Sp. Harb., Jl–Aug; Oyster Bay, *Chamb*; Montauk Pt., May.

C. formosus Bks. Ithaca, Sep (Bks); **LI:** (Bks); Sea Cliff, *Fox*.

C. laetabilis Cambr. Wilmington Notch, Aug; High Falls, Aug; Auger Pond, Nov; L. Pleasant, Ap; Pinnacle Mt., Aug; Clarksburg, Sep; Stow, Sep; Rock City, Sep; Letchworth Pk., Jl; Penn Yan, May, Aug; Egleston's Glen, Yates Co, Sep; L. Keuka, Ap, Dec; Rye Pt., Sep; Savona, Sep; Interlaken, Jl; Taughannock Falls, Jl; Montour Falls, Oct; Alpine, Nov; Connecticut Hill, Oct–Nov; Enfield Glen, Aug, Oct; Ithaca, all months; Danby, Oct; Freeville, May, Oct; McLean Bogs, Sep; Deruyter L., Jl; Cascade, Nov; W. Winfield, Je; Apalachin, May; Belden Hill, Broome Co, May; Delaware L., May; Meredith, May; Valcour I., Aug; Silver Bay, Jabe Pond, Sep, *Leon*; Juanita I., Pearl Pt., Jl; S. Westerlo, May; Mt. Utsayantha, Oct; Cragsmoor, May; Sam's Pt., May; Slide Mt., Je; Oakland Val., May; Pinekill, May; Tuxedo, Oct, *Wlf*; **LI** (Bks).

C. laetus Cambr. McLean Bogs, May–Je.

C. laticeps Em. Ithaca, Aug; **LI:** Long Pond, Suffolk Co, Je.

C. limnologicus Cros. and Bish. Crusoe L., May.

C. micropalpis Em. Barneveld; Ithaca, Nov (Bks); Ancram, Je; **LI** (Bks).

C. minutus Em. Wilmington Notch, Aug; Elizabethtown, Aug, Oct; High Falls, Aug; L. Pleasant, Ap; Mountain L., Ap; Raquette Falls, Aug; Gilman L., Ap.; Sylvan Beach, Jl; Wolcott, May; Lake Bluff, Sep; Mendon, Oct; Newfane, Oct; Rock City, Sep; Richburg, Sep; Savona, Sep; Rye Pt., Sep; L. Keuka, Sep, Dec; Crosby, Oct; Guyanoga, Je; Egleston's Glen, Sep; Penn Yan, May; Cinnamon L., Jl; Interlaken, Jl, Nov; Connecticut Hill, Oct; Ithaca, all

months; Enfield Glen, Je, Oct; McLean Bogs, Ap; Danby, Oct; Freeville, May, Oct; Deruyter L., Jl; Cascade, Nov; Meredith, May; Belden Hill Broome Co, May; Altamont, Ap; Vrooman's Nose, May; Silver Bay, Sep, *Leon*; Pearl Pt., Jl; Juanita I., Jl, Aug; L. Charlotte, Je; Accord, Mar; Sam's Pt., May; Oakland Val., May; Pine Island, May; Mt. Utsayantha, Oct; English Church, Rockland Co, May; Tuxedo, Oct, *Wlf*; **LI**: Flushing, Je; Cold Sp. Harb., Aug; Patchogue, Ap; Southold, Ap; Baiting Hollow, May; Great Pond, Riverhead, May.

C. ornatulus Cros. and Bish. Mt. Whiteface, Aug.

C. paschalis Cros. and Bish. Oakland Val., May.

C. pygmaeus Em. **LI**: Sea Cliff, *Bks*; Cold Sp. Harb., Ap, *Bryant*.

C. similis Bks. Clayville, Je; Olcott, Feb; Ithaca, Ap, Sep–Nov; Ringwood, Jl; Putnam, Sep; Poughkeepsie, *vanIngen*; **LI**: Sea Cliff, *Em*; Cold Sp. Harb., Jl–Aug, *Bryant*; Oyster Bay, *Chamb*; Riverhead (Sound Beach), Sep; Wading R. (Sound Beach), Je; Bridgehampton (Ocean Beach), Aug.

CERATINELLA Emerton

C. brunnea Em. Wilmington Notch, Aug; Mt. Whiteface, Aug; Mt. McIntyre, Jl; Wawbeek, Jl; Uphill Br., Opalescent R., Jl; Raquette Falls, Aug; Gilman L., Ap; L. Pleasant, Ap; Cranberry Cr., Aug; Barneveld; Howland I., Nov; Olcott, Mar; Penn Yan, May, Aug; Interlaken, Jl; Ithaca, Feb, Ap–May, Jl–Aug, Oct; Enfield Glen, Oct; Danby, Oct; Freeville, Oct; Valcour I., Aug; Juanita I., Jl–Aug; Silver Bay, Sep, *Leon*; Maratanza L., May; Slide Mt., Aug; Oakland Val., May; Pine I., Orange Co, May.

C. placida Bks. Ithaca, Feb, Sep (Bks).

C. sphaerica Em. **LI**: E. Hampton, May.

CERATINOPSIS Emerton

C. formosa Bks. (*alternata* Em.). Wilmington, Aug; Wilmington Notch, Aug; Mt. Whiteface, Aug; Elizabethtown, Aug; Peru, Je; Cranberry Cr., Aug–Sep; Woodworth's L., Aug–Sep, *Alex*; Lake Bluff, Sep; Lancaster; Rock City, Aug; Penn Yan, Aug; Montour Falls, Sep; Enfield Glen, Aug; Ithaca, Jl–Aug; Juanita I., Shelving Rock Mt., Jl; Pearl Pt., Aug; Queechy L., Aug, *Schoon*; Hunter, Aug; **LI**: Riverhead, Sep.

C. auriculata Em. Ithaca (Em); Freeville, May; Ringwood, May, *Dt*.

C. interpres Cambr. Wilmington Notch, Aug (Em); Peru, Je; Rock City, Je; Ithaca, Ap, Oct (Bks); Little Pond, Orange Co, May; Oakland Val., May; **LI**, Je (Bks).

C. laticeps Em. Olcott, Feb, *Dt*; Ithaca, May, Aug; **LI**: Montauk Pt., May.

C. nigriceps Em. Saratoga, Je; Clyde, Ap; McLean, Jl; Shelving Rock Mt., Jl; Tackawasick Pond, Je; Oakland Val., May; **LI**: Riverhead (Sound Beach), Sep; Cold Sp. Harb., Jl.

C. nigripalpis Em. Ithaca, Sep (Bks); **LI**: Riverhead, Aug; Baiting Hollow, May

C. tarsalis Em. **LI**: Cold Sp. Harb., Ap, *Bryant*; Oyster Bay, *Chamb*; Riverhead (Sound Beach), Sep.

C. unicolor Cros. Egleston's Glen, Je; **LI**: Yaphank, Aug, *Shoe*; Baiting Hollow, May.

CORNICULARIA Menge

C. auranticeps Em. Albany, Je; Little Pond, Orange Co, May.
C. clavicornis Em. Mt. Whiteface, Aug (Em).
C. placida Bks. Ithaca, Oct (Bks).

DELORRHIPIS Simon

D. unicornis Bks. Ithaca, Mar, Nov; Crosby, Ap; Barrington, Oct.

DICYMBIUM Menge

D. pectinatum Em. McLean Bogs, May.

DIPLOCEPHALUS Bertkau

D. abruptus Em. McLean, Jl; Slaterville, Aug; **LI:** Riverhead, Je.
D. arenarius Em. Mt. McIntyre, Jl; Clyde, Ap; Pine I., Orange Co, May.
D. castaneus Em. Mt. Whiteface, Aug; L. Tear, Sep.
D. crenatus Em. Woodworth's L., Aug, *Alex*; Ithaca, Aug–Sep; **LI:** Sea Cliff (Bks); Cold Sp. Harb., Jl, *Bryant*.
D. cuneatus Em. Sylvan Beach, Jl; Crusoe L., May.
D. erigonoides Em. Mt. McIntyre, Jl; Olcott, Feb, *Dt*; Keuka Pk., Ap; Crosby, Nov; Hammondsport, Jl; Ithaca, Mar, May, Oct–Dec; Etna, Nov; McLean, May, Sep; Sacandaga Pk., Je, *Alex*; Middletown, Ap; **SI:** Tottenville, Nov; **LI:** Sheepshead Bay, Sep; Sea Cliff, Je; Gardiners I., May; Montauk Pt., May.
D. exiguus Bks. Ithaca, Jan (Bks).
D. latus Em. Cranberry Cr., Aug; Ithaca (Bks); McLean, May; Poughkeepsie (Bks); **LI,** Mar (Bks).
D. littoralis Em. **LI:** Cold Sp. Harb., Aug (Em); Riverhead, Sep.
D. minutus Em. L. Pleasant, Ap.
D. pallidus Em. Auger Pond, Aug; Jabe Pond, Sep, *Leon*; Karner, Mar.
D. simplex Em. Wilmington Notch, Aug; Mt. Whiteface, Aug; Auger Pond, Nov; Silver Bay, Sep, *Leon*; Egleston's Glen, Sep; Connecticut Hill, Aug, Oct–Nov; McLean; Ringwood, May, *Dt*; Labrador Pond, Je.

DRAPETISCA Menge

D. alteranda Chamb. Crown Pt., Sep, *Plm*; Wilmington Notch, Aug; L. Placid, Sep, *Plm*; Upper Jay, Sep, *Plm*; Chateaugay L., Sep, *Plm*; Raquette L., Sep; Big Moose, Aug, *Plm*; Onondaga Co (Britcher); Lake Bluff, Sep; Glen Haven, Sep, *Plm*; Clarksburg, Sep; Richburg, Sep; Rock City, Sep; Wellsville, Sep; Hornell, Sep; Painted Post, Sep; Cinnamon L., Sep; Geneva, Sep; Ithaca, Sep; Bronx Pk., Sep, *Plm*; **LI,** Oct (Bks).

ERIGONE Audouin

E. atra Blackw. Mt. McIntyre, Jl; Wilmington, Aug; Geneva, Jl; Cayuta L., Jl; Taughannock Falls, Jl–Aug, *Dt*; Ithaca, Mar, Je–Aug, Oct; Waterville, Aug; Tackawasick Pond, Je.

E. autumnalis Em. Barneveld, Aug; Ithaca, Jl–Aug; McLean, May; **LI:** Oyster Bay, *Chamb*; Cold Sp. Harb., Jl, *Bryant*; Sea Cliff (Em).

E. brevidentata Em. Ithaca, Jl.

E. dentigera Cambr. Chapel Pond, Je; Ithaca, Aug; McLean, May; Tackawasick Pond, Je; Kingston, Mar; **LI:** Sheepshead Bay, Je–Jl.

E. tridentata Em. L. Keuka, Sep; Ithaca, Feb, Nov; Rensselaer, Nov, *Schoon*; **SI:** Clove Val., Nov; **LI,** Oct–Nov (Bks).

E. tristis Bks. Ithaca, Ap, Oct (Bks).

EXECHOPHYSIS Simon

E. nigriceps Bks. Ithaca, May (Bks); **LI:** Sea Cliff, May (Bks).

E. plumalis Cros. Sylvan Beach, Jl; Ithaca, May; Juanita I., Aug; Little Pond, Orange Co, May; **LI:** Riverhead, May.

GONATIUM Menge

G. rubens Blackw. Pinnacle Mt., Sep; Painted Post, Sep; Taughannock Falls, Oct; Ithaca, Aug, Nov; Freeville, Aug, Nov (Bks); Juanita I., Aug–Sep; Larchmont, Sep, *Wlf*.

GONGYLIDIELLUM Simon

G. minutum Bks. Ithaca, Mar (Bks); Varna (Bks).

G. pallidum Em. Wells, Ap; Mountain L., Ap; Sylvan Beach, Jl; Wolcott, May; L. Keuka, Dec; Ithaca, Feb–Ap, Dec; Freeville, Oct; Belden Hill, Broome Co, May; Juanita I., Aug; Accord, Mar; Pomona, Ap; English Church, Rockland Co; Larchmont, Sep, *Wlf*; **LI:** Oct (Bks); Riverhead, Aug; Jamaica, Ap; Southold, Ap.

GRAMMONOTA Emerton

G. gigas Bks. L. Tear, Jl; Ithaca, May (Bks); Freeville, Ap–May; Cinnamon L., Jl.

G. inornata Em. Barneveld, Aug; Ithaca, May, Aug; **LI:** May–Je (Bks); Sea Cliff, Je; Mattituck, Aug; Patchogue, Aug; Orient Pt., Aug.

G. ornata Cambr. Ithaca, Mar (Bks); **SI:** Clove Valley, Nov; **LI,** Sep–Oct (Bks).

G. pallipes Bks. **LI,** Oct (Bks).

G. pictilis Cambr. Wilmington, Aug; Ithaca, Mar, Sep (Bks); Valcour I., Aug; Bumps Pond, Jl; Stamford, May, *Chrisp*; Little Pond, Orange Co, May.

G. trivittata Bks. **LI:** Sea Cliff, Nov–Dec (Bks).

HYPOMMA Dahl

H. bilobata Bks. McLean Bogs, May.

H. trilobata Bks. McLean Bogs, May; Ringwood, May; Ramapo Mts., May.

HYPSELISTES Simon

H. florens Cambr. Axton, *MacG*, *Houghton*; Wells, Jl, *Yg*; Black Br., Je; Cranberry L. (Barrows); Johnstown, Jl–Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Walworth, Je; Rock City, Aug; Bluff Pt., Sep; Ithaca, May, Sep,

Oct; McLean Bogs, May–Jl; Albany, May; Karner, Jl; Guilderland Center, May; Rensselaer, May; Central Nassau, Jl; Tackawasick Pond, Je; Valley Falls, May, *Yg*; Queechy L., May, *Schoon*; Maratanza L., May; Little Pond, Orange Co, May; Pine I., Orange Co, May; **LI**: Millneck, Ap (Bks).

LEPHTHYPHANTES Menge

L. minutus Blackw. Keuka Pk., Oct; Ithaca, Nov (Bks); Poughkeepsie, *vanIngen*; **LI**, Aug (Bks).

L. nebulosus Sund. Gloversville, Oct; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, Sep; Geneva, Nov; Bluff Pt., Sep; Ithaca, Mar, Nov (Bks); Albany, Aug, *Hartman*; Rensselaer, Nov; Oakland Val., May; **LI**, Sep, Nov (Bks).

LINYPHIA Latreille

L. cayuga Em. Ithaca, Mar, Dec (Em).

L. clathrata Sund. Black Br., Je; Ithaca, Je, Nov (Bks); McLean, May, Jl; Mt. Lebanon, May; Rensselaer, May–Je, *Schoon*; **SI**, Jan, young; **LI**: Oct–Dec (Bks); Sea Cliff (Em).

L. communis Htz. Wilmington, Aug; Axton; Keene Val., Sep; Paul Smiths, Jl; Speculator, Jl; Newcomb, Jl; Peru, Je; Pompey (Britcher); Saratoga, Je; Ithaca, Jl; Freeville, May; McLean, May–Je; Pearl Pt., Jl; Shelving Rock Mt., Jl; Bumps Pond, Jl; Central Nassau, Jl; Little Pond, Orange Co, May.

L. conferta Htz. **LI**, Oct (Bks).

L. insignis Blackw. Wilmington Notch, Aug; Wilmington, Aug; Marble Mt., Aug; Cranberry L. (Barrows); Gloversville, Ap, *Alex*; Johnstown, Aug–Sep, *Alex*; Sacandaga Pk., Je, *Alex*; Woodworth's L., Aug–Sep; Burke, Oct; Lake Bluff, Sep; Rochester, Nov, *Chad*; Stow, Sep; Olcott, Sep; Ceres, Sep; Richburg, Sep; Wellsville, Sep; Painted Post, Sep; Ithaca, Sep–Nov; Owego, Dec; Indian Head Mt., L. George, Sep, *Leon*.

L. lineata L. Gloversville, Mar, *Alex*; Fishers Landing, Sep, *Plm*; Onondaga Co (Britcher); Lake Bluff, Sep; Glen Haven, Sep, *Plm*; Rochester, Nov, *Chad*; Lewiston, Sep, *Plm*; Bluff Pt., Sep, *Heck*; Ithaca; McLean, Ap; Copeland Hill, Albany Co, May; Rensselaer, Nov; Mill Cr., May; Coxsackie, Mar; Poughkeepsie, *vanIngen*; **LI**, Oct–Nov (Bks).

L. maculata Em. Ithaca, Mar–Ap, Oct; McLean, Jl; Oakland Val., May.

L. mandibulata Em. Wilmington, Aug; L. Tear, Jl; Black Br., Je; Barneveld; Johnstown, May, *Alex*; Onondaga Co (Britcher); L. Keuka, May–Je; Ithaca, May; McLean, May; Albany (Em); Voorheesville, May; Rensselaer, May, Aug, *Schoon*; Grafton, Aug; Vrooman's Nose, May; Black Mt., Washington Co, Aug; Bumps Pond, Jl; Cragsmoor, May; Stamford, May, *Chrisp*; **LI** (Bks).

L. marginata C. Koch. Wilmington, Aug; Axton, *MacG*, *Houghton*; Paul Smiths, Jl; Chapel Pond, Je; Speculator, Jl, *Yg*; Old Forge, Jl, *Plm*; Cranberry L. (Barrows); Raquette L., Je; Wells, Jl, *Yg*; Johnstown, Jl, *Alex*; Gloversville, Aug, *Alex*; Woodworth's L., May, *Alex*; Onondaga Co (Britcher); Ithaca; Oak Ridge, Canandaigua L., Aug; Albany; Thacher Pk., Je–Jl; Thompson L., Jl; Dormansville, Je; Grafton, Aug; Rensselaer, Ap, *Schoon*; Tackawasick Pond, Rensselaer Co, Je; Riders Mills, May, *Chrisp*; Queechy L., May, *Schoon*; Valcour I., Aug; Pearl Pt., Juanita I., Jl; Sleeping Beauty Mt., Jl; Bumps Pond, Jl; Tongue Mt., Warren Co, Sep, *Leon*; Poughkeepsie,

vanIngen; Mt. Marion, Ulster Co, Oct, *Chad*; Vrooman's Nose, May; Stamford, May, Jl; Little Pond, Orange Co, May; Highland, *Wlf*; Paradise, May; Oakland Val., May.

L. nearctica Bks. Mt. Whiteface, Aug; Wilmington, Aug; Marble Mt., Aug; Uphill Br., Opalescent R., Jl; Mt. Marcy, Sep; L. Tear, Sep; Avalanche L., Jl.

L. phrygiana C. Koch. Wilmington, Aug; North Cr., Je, *Plm*; Paul Smiths, Jl, *Plm*; Gloversville; Mar–Ap, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Cayuga, Oct, *Chad*; Ithaca (Bks); McLean, May; Schenectady, Dec, *Dt*; Albany, Je; Kenwood, May, *Plm*; Thacher Pk., Je; E. Schodack, Je, *Chad*; Cossayuna L., May, *Schoon*; Valley Falls, May, *Yg*; Riders Mills, May, *Chrisp*; Waterford, Jan, *Chad*; Valcour I., Aug; Bumps Pond, Jl; Catskill, Sep; Stamford, May, *Chrisp*; Cragsmoor, May; Bronx Pk., Sep, *Plm*; **LI**, Ap, Oct (Bks).

L. variabilis Bks. Wilmington, Aug; Newcomb, Jl; Ithaca, Feb, Oct (Bks); Rensselaer, Nov, *Schoon*; Stamford, May, *Chrisp*.

LOPHOMMA Menge

L. elongatum Em. Raquette Falls, Aug; Ringwood, May, *Dt*; McLean Bogs, May; Pinekill, May.

L. longitarsum Em. Wilmington Notch, Aug; **LI**: Montauk Pt., May.

MASO Simon

M. frontata Bks. Wilmington, Aug; Wilmington Notch, Aug (Em); Ceres, Sep; Rock City, Sep; Ithaca, Mar (Bks); McLean, Jl; Labrador Pond, Je; L. Charlotte, Je; **LI**: Long Pond, Suffolk Co, Je; Baiting Hollow, May.

MICRONETA Menge

M. clavata Em. Wilmington Notch, Aug.

M. complicata Bks. Michigan Hollow Swamp, Ap (Bks).

M. cornupalpis Cambr. Wilmington Notch, Aug; Crosby, Dec; Ithaca, Mar–Ap, Nov (Bks); Shurger's Gorge, Nov; McLean, May; Juanita I., Jl; Oakland Val., May; Pomona, Ap; Larchmont, Sep, *Wlf*; **SI**: Clove Val., Nov; **LI**: Flushing, Nov; Jamaica, Ap.

M. denticulata Em. **LI**: Baiting Hollow, Ap.

M. fabra Key. (*bowditchiae* Bish., *wana* Chamb.). Ithaca, Jl (Chamb); **LI**: Sheepshead Bay, Ap; Oyster Bay (Chamb).

M. latidens Em. Italy Hill, Oct; Accord, Mar.

M. longibulbus Em. McLean Bogs, May; Little Pond, Orange Co, May; **LI** (Bks).

M. minutissima Bks. Fall Cr., Ithaca, Oct.

M. multesima Cambr. Auger Pond, Nov; Lake Bluff, Sep; Stow, Sep; Olcott, Sep; Honeoye Falls, Nov; Lockport, Nov; Connecticut Hill, Nov; Savona, Sep; Rye Pt., Sep; Italy Hill, Yates Co, Oct; Ithaca, Feb (Bks); Owego, Dec; Altamont, Ap.

M. persoluta Cambr. Wilmington Notch, Aug; Auger Pond, Nov; Old Forge, Oct; Burke, Oct; Crosby, Dec; L. Keuka, Oct; Egleston's Glen, Oct; Enfield Glen, Oct; McLean, May–Jl; Meredith, May; Slide Mt., Je; Cragsmoor, May; Maratanza L., May; Sam's Pt., May; Silver Bay, Sep, *Leon*; Indian Head Mt., L. George, Sep, *Leon*.

M. quinquedentata Em. Malone, Oct; Burke, Oct; Howland I., Nov; Egleston's Glen, Sep; Enfield Glen, Oct; Ithaca, Nov; McLean Bogs, Sep; Saratoga Sps., Ap; Rensselaer, Sep, Nov; **LI**: Baiting Hollow, Ap.

M. serrata Em. Crosby, Oct; Keuka Pk., Nov.

M. viaria Blackw. Wilmington Notch, Jl–Aug; Howland I., Nov; Rock City, Sep; Italy Hill, Oct; Connecticut Hill, Oct; Ringwood, Oct; Enfield Glen, Oct; Ithaca, Oct–Nov; Voorheesville, May; Juanita I., Pearl Pt., Jl; Meredith, May; Slide Mt., Je; Delhi, May; Pomona, Ap; Cragsmoor, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; **SI:** Clove Val., Nov; **LI:** Sea Cliff (Em).

MINYRIOLUS Simon

M. scopuliferus Em. Ithaca, Nov–Dec; Wappingers Falls, May.

OEDOTHORAX Bertkau

O. bidentatus Em. Mt. Whiteface, Aug; Mt. McIntyre, Jl; Uphill Br., Opalescent R., Jl; Little Pond, Orange Co, May.

O. bostoniensis Em. Woodwardia Swamp, Sep–Oct.

O. brunneus Em. Ithaca, Aug (Bks).

O. concavus Em. **LI:** Black Swamp, Oct (Bks).

O. corticarius Em. Woodworth's L., Jl, *Alex.*

O. debilis Bks. Ithaca, Mar, Dec (Bks).

O. decemoculatus Em. Newcomb, May; Ithaca, May.

O. flaveolus Bks. Otto, Oct; Geneva, Nov; Ithaca, Feb, Oct (Bks); **LI**, Oct.

O. limatus Cros. Ithaca, Nov; McLean, May, Jl.

O. microtarsus Em. Wilmington, Aug; Mt. Whiteface, Aug.

O. montanus Em. High Falls, Aug; Mt. Whiteface, Aug; Mt. McIntyre, Jl; L. Tear, Sep; Uphill Br., Opalescent R., Jl.

O. montiferus Em. Shurger's Gorge, Nov; Ithaca, Mar–Ap, Dec.

O. ornatus Em. Ithaca (Em); Crusoe L., May; Montauk Pt., May.

O. oxypaederotipus Cros. Old Forge, Oct; Clarksburg, Sep; Ceres, Sep; Letchworth Pk., Jl; Taughannock Falls, Jl; Guyanoga, Je; Penn Yan, May; L. Keuka, Ap; Connecticut Hill, Aug; Ithaca, Feb, May–Jl; Danby, Oct; Ringwood, May, *Dt*; Freeville, May, Jl, Oct; McLean, May; Labrador Pond, Je; Deruyter L., Jl; Trenton Falls, Je; Altamont, Ap; Apalachin, May; Belden Hill, Broome Co, May; Meredith, May; Delaware L., May; Slide Mt., Je; Paradise, May; Mt. Utsayantha, Oct; Oakland Val., May.

O. plumosus Em. Mt. McIntyre, Jl; Ithaca, Mar, Jl, Oct–Nov; Kingston, Mar.

O. rusticus Bks. Ithaca, Dec (Bks), Ap, *Seeley, Flet.*

O. spiniferus Cambr. Ithaca, Oct (Bks).

O. tarsalis Em. **LI:** Great Pond, Riverhead, May.

O. terrestris Em. **LI:** Black Swamp, Oct (Bks).

O. truncatus Em. Mt. Whiteface, Aug; Auger Pond, Nov.

O. undulatus Em. Ithaca, May.

O. unidentatus Em. Mt. Whiteface, Aug.

PARERIGONE Crosby and Bishop

P. contorta Em. Ithaca, May; McLean Bogs, May–Je; **LI:** Jamaica, Ap; Montauk Pt., May.

P. entomologica Em. Mt. Whiteface, Aug (Em); McLean Bogs, May; Mt. Whiteface, Aug.

P. index Em. Cinnamon L., Jl; Freeville, May; McLean Bogs, Ap–May; Ringwood, May, *Dt*; Suffern, Ramapo Mts., May; **LI:** Flushing, Je.

P. probata Cambr. Wilmington, Aug; Sylvan Beach, Jl; Wolcott, May; Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Rock City, Sep; Italy Hill, Oct; Guyanoga, Je; L. Keuka, Je; Rye Pt., Sep; Barrington, Oct; Interlaken, Jl; Connecticut Hill, Oct; Taughannock Falls, Jl; Enfield Glen, Je, Aug; Ithaca, Feb, May, Jl–Aug, Oct; Ringwood, May, *Dt*; Freeville, Jl; McLean Bogs, May, Jl; Deruyter L., Jl; Labrador Pond, Je; Jenksville, Oct; Delaware L., May; Silver Bay, Sep, *Leon*; Pearl Pt., Jl; Altamont, Ap; Mountainville, May; Pine Hill, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; Pomona, Ap; **SI:** Clove Val., Nov; **LI:** Southold, Ap; Great Pond, Riverhead, May; Baiting Hollow, May; Riverhead, Ap–Aug; Long Pond, Suffolk Co, Je; Montauk Pt., May.

P. rectangulata Em. Mt. Whiteface, Aug; McLean Bogs, May; Ringwood, Oct; Maratanza L., May; Little Pond, Orange Co., May; **LI:** Great Pond, Riverhead, May.

P. simplex Em. Little Pond, Orange Co, May.

P. trilobata Em. Trenton Falls, Je; Olcott, Sep; Lockport, Nov; Cinnamon L., Jl; Ithaca, Mar–May, Oct–Nov; Freeville, Oct; Ringwood, May, *Dt*; Albany, Jl; Voorheesville, Je; Little Pond, Orange Co, May; **SI:** Clove Val., Nov; **LI:** Jamaica, Ap, *Wlf*.

PELECOPSIS Simon

(*Lophocarenum* Menge)

P. excavatum Em. Summit of Mt. Whiteface, Aug.

P. moestum Bks. Ithaca, Nov (Bks); Poughkeepsie (Bks); Pine I., Orange Co, May.

P. rugosum Em. Juanita I., Aug; **LI:** Baiting Hollow, May.

POCADICNEMIS Simon

P. pumila Blackw. (equals *longituba* Em.). Sylvan Beach, Jl; Howard, Jl; Penn Yan, May; Cinnamon L., Je–Jl; Ithaca, May, Jl–Aug; Freeville, Aug; McLean, May–Jl; Vrooman's Nose, May; L. Charlotte, Je; Schodack Landing, Je; Riders Mills, May; Ancram, Je; Little Pond, Orange Co, May; **LI:** Wading R. (Sound Beach), Je; Baiting Hollow, May; Long Pond, Suffolk Co, Je.

PROSOPOTHECA Simon

P. brevicornis Em. **LI:** Riverhead, Ap.

P. communis Em. Mt. Whiteface, Aug; West Barre, Sep; Ithaca, Feb, Ap–May; McLean Bogs, May; **LI** (Bks).

P. digitata Em. (*Tmeticus*). **LI:** Cold Sp. Harb., Je (Em).

P. directa Cambr. Stow, Sep; Ithaca, Sep–Oct; Freeville, May; McLean, Ap–May; Italy Hill, Oct; Egleston's Glen, Sep; Karner, Mar; Poughkeepsie, *vanIngen*; Meredith, May.

P. indirecta Cambr. Ithaca, Ap (Bks); **LI** (Bks).

P. minuta Em. Lake Bluff, Sep; **LI:** Riverhead, Ap; Baiting Hollow, Ap.

P. pallida Em. Ithaca, Oct (Bks); Auger Pond, Nov.

P. spiralis Em. Ithaca, Aug, Nov; McLean, May–Je; Freeville, Aug (Bks); **LI:** Jamaica, Sep.

P. tibialis Em. Little Pond, Orange Co, May.

TAPINOCYBA Simon

T. distincta Bks. Varna, Mar (Bks); Freeville, May (Bks); McLean Bogs, Jl.

TAPINOPA Westring

T. bilineata Bks. Ithaca (Comst); Freeville, Aug; **LI:** Sea Cliff (Bks); Long Pond, Suffolk Co, Je.

TMETICUS Menge

T. cultigerus L. Koch (*armatus* Bks.). Mt. Whiteface, Aug (Em); Hague, Sep, *Leon.*

TORTEMBOLUS Crosby

T. alpinus Bks. Voorheesville, Nov, *Leon.*

TRACHELOCAMPTUS Simon

T. rostratus Em. Olcott, Sep; Ithaca, Mar; **LI:** Sea Cliff, Dec (Bks); Southold, Ap; Riverhead, Ap–May; Cold Sp. Harb., Ap, *Bryant*; Baiting Hollow, May.

UTOPIELLUM Strand

U. curvitarsis Em. Mt. Whiteface, Aug (Em).

WABANA Chamberlin

W. drassoides Em. Mt. Whiteface, Aug.

FAMILY ARGIOPIDAE

ACACESIA Simon

A. foliata Htz. Sacandaga Pk., Jl, *Alex*; **LI:** Sea Cliff, Sep (Bks).

ARANEUS Clerck

A. angulatus Cl. Mt. Whiteface, Aug; Wilmington, Aug; Wilmington Notch, Aug; Mt. Marcy, Sep; Uphill Br., Opalescent R., Jl; Saranac L. (McCook); Keene Val., Sep; Gloversville, Sep; W. Caroga L., Aug, *Alex*; Johnstown, Aug, *Alex*; Spring Brook, Sep; Slingerlands, Oct, *Goldring.*

A. arenatus Walck. **LI:** Sea Cliff, Sep (Bks).

A. cavaticus Key. Keene Val., Aug; Ausable Chasm (Em); Wells, Jl, *Yg*; Ithaca, Sep, Nov (Bks); Thacher Pk., May–Je; Kattskill Bay, Aug; Black Mt., Washington Co, Sep, *Leon*; Shelving Rock Mt., Jl; Shelving Rock Br., Sep, *Leon.*

A. cornutus Cl. Axton, *MacG*, *Houghton*; Saranac L., Aug; Wilmington, Aug; Deer I., Thousand Isls., Aug; Fishers Landing, Sep, *Plm*; Johnstown, May, *Alex*; Onondaga Co (Britcher); Lake Bluff, Sep; Rochester, Nov, *Chad*; Irving, Sep, *Chad*; Dunkirk; Barcelona, Sep; Crosby, Ap; Taughannock Falls, Aug; Enfield Glen, Oct; Ithaca, Aug, Nov (Bks); Glenwood, Aug,

Leon; Vrooman's Nose, May; Plattsburg, Sep; Valcour I., Aug; Elizabeth I., Je; Juanita I., Jl; Albany, Jan, Je–Jl, Sep; Rensselaer, May, Sep; Thompson L., Sep; Voorheesville, Je; Cossayuna L., May, *Schoon*; Stockport, Sep; Poughkeepsie; L. Katrine, Oct; **LI:** Sea Cliff, May–Je (Bks).

A. corticarius Em. Wilmington Notch, Aug; Saranac L., Aug; Chateaugay L., Sep, *Plm*; Raquette L., Sep, *Plm*; Johnstown, Aug, *Alex*; Woodworth's L., Aug, *Alex*; Onondaga Co (Britcher); Cinnamon L., Sep; Ithaca (McCook); Dryden, Sep (Bks).

A. cucurbitinus Cl. Mt. McIntyre, Jl; Axton, *MacG, Houghton*; Wilmington, Aug; L. Tear, Jl; Wells, May, *Yg*; Speculator, Aug, *Yg*; Old Forge, Je–Jl; Gloversville, May–Je, Aug, Oct, *Alex*; E. Caroga L., Aug; Johnstown, Jl, Sep, *Alex*; Sacandaga Pk., Je–Jl, *Alex*; Baldwinsville (Bks); Rochester; Ithaca, Aug–Oct (Bks); Connecticut Hill; McLean, May; Waterford, Nov; Kenwood, Jl, *Chad*; Albany, Sep–Nov; Alps, *Chrisp*; Queechy L., May, *Schoon*; Vrooman's Nose, May; Catskills, Jl, *Chad*; Stamford, May–Je, *Chrisp*; **SI:** New Brighton, Nov; **LI:** Sea Cliff, Oct (Bks).

A. ectypus Walck. **LI:** Sea Cliff (Bks).

A. emertoni Bks. **LI:** Sea Cliff (Bks).

A. juniperi Em. Ithaca (Bks); **LI:** Sea Cliff (Bks).

A. marmoreus Cl. Wilmington, Aug; Saranac, Aug; Saranac L., Sep, *Plm*; Plattsburg, Sep; Chateaugay L., Sep; Cranberry L. (Barrows); Fishers Landing, Sep, *Plm*; Mountain L., Je, *Alex*; Gloversville, Aug–Sep, *Alex*; E. Caroga L., Aug; Deer I., Thousand Isls., Aug; Watertown, Sep; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, Sep; Hemlock L., Aug; Rochester; Glen Haven, Sep–Oct; Barcelona, Sep; Richburg, Sep; West Barre, Sep; Dunkirk; Irving, Sep; Oak Ridge, Canandaigua L., Aug; Painted Post, Sep; Watkins Glen; Rock Stream, Oct; Cinnamon L., Sep; Enfield Glen, Oct; Ithaca (Bks); Ringwood, Oct; McLean, Aug; Crown Pt., Sep, *Plm*; Sleeping Beauty Mt., Jl; Waterford, Sep; Albany, Je, Aug–Oct; Kenwood, Oct, *Plm*; Altamont, Oct; Rensselaer, Jl, Sep, Oct; Waldorf, Sep; Queechy L., Aug, *Schoon*; Catskill, Aug; Poughkeepsie, *vanIngen*; West Park, Aug, *Wlf*; Fishkill, Sep; Van Cort. Pk., Sep, *Plm*; Bronx Pk., Sep, *Plm*; **LI:** Sea Cliff, Jl (Bks).

A. miniatus Walck. **LI:** Sea Cliff, Jl, Dec (Bks).

A. nordmanni Thorell. Wilmington Notch, Aug; L. Placid, Sep, *Plm*; Woodworth's L., Aug, *Alex*; Caroga L., Aug, *Alex*; Onondaga Co (Britcher); Glenwood, Aug, *Leon*; Ithaca, Sep, Nov; Thacher Pk., Je; Rensselaer, Oct, *Schoon*; Tackawasick Pond, Je; Riders Mills, May; Catskill Mts., Aug, *Schoon*; Sam's Pt., May; Oakland Val., May.

A. patagiatus Cl. Plattsburg, Sep; Adirondack Mts. (Em&McCook); Gloversville, Aug, *Alex*; Wells, Jl, *Yg*; Lake Bluff, Aug–Sep; Rochester; Hemlock L., Aug; Glen Haven, Sep, *Plm*; Irving, Sep; Charlotte, Sep; Naples, Jl; Ithaca, Nov (Bks); Cascade, Nov; Cazenovia, Sep; Valcour I., Aug; Juanita I., Jl–Aug; Elizabeth I., Jl; Waterford, Ap; Albany, Aug; Kenwood, Ap, *Chad*; Nassau, Je, *Schoon*; Cossayuna L., May, *Schoon*; Kinderhook L., Aug, *Schoon*; Fishkill, Sep.

A. pegnia Walck. Ithaca (Bks); Catskill, Sep, *Chad*; Poughkeepsie, *vanIngen*; **LI,** Sep (Bks).

A. sericatus Cl. Plattsburg, Sep; Alexandria Bay (McCook); Sacandaga Pk., Jl, *Alex*; Gloversville, Aug, *Alex*; Johnstown, May, *Alex*; Baldwinsville (Bks); Clyde, Ap, Aug; Lake Bluff, Aug–Sep; Cayuga, Oct, *Chad*; Rochester, Je,

Chad; Dunkirk; Naples, Jl, Aug; Ithaca, Aug, Nov; Elizabeth I., May, Aug; Albany, Jl, Nov; Kinderhook L., Aug, *Schoon*; Cornwall, May; **LI:** Bay Shore, Sep, *Plm*.

A. solitarius Em. Chateaugay L. (Em); Saranac L. (McCook); Mt. Marcy, Sep; Munsonville, Oct, *Alex*; Onondaga Co (Britcher); Rochester, Sep–Oct; Ithaca, Oct (Bks).

A. stellatus Walck. Axton, *MacG*, *Houghton*; Wells, Jl, *Yg*; Woodworth's L., Jl, *Alex*; Gloversville, Ap–May, *Alex*; Johnstown, May; Barneveld, Aug; Onondaga Co (Britcher); Connecticut Hill, Oct; McLean, Jl; Dryden, Aug (Bks); Ringwood, Oct; Hudson Falls, Je; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff (Bks).

A. thaddeus Htz. Wilmington, Aug; Cranberry L. (Barrows); Gloversville, Aug, *Alex*; E. Caroga L., Aug, *Alex*; Onondaga Co (Britcher); Rochester, *Franck*; Ithaca, Aug–Oct; Kenwood, Sep–Oct; Waldorf, Sep; Alps, Oct; **LI:** Sea Cliff, Jl (Bks).

A. trifolium Htz. Plattsburg, Sep; Wilmington, Aug; Chateaugay L., Sep, *Plm*; Saranac L., Sep, *Plm*; Cranberry L. (Barrows); Cranberry Cr., Aug; Gloversville, Ap, Aug–Sep, *Alex*; Johnstown, Sep, *Alex*; E. Onondaga, Sep, *Plm*; Lake Bluff, Sep; Rochester, Sep–Oct; Clarksburg, Sep; Richburg, Sep; Hornell, Sep; West Barre, Sep; Hemlock L., Aug; Irving, Sep, *Chad*; Dunkirk; Ithaca, Sep–Oct; Valcour I., Aug; Albany, Sep–Oct; Waldorf, Sep, *Yg*; Schodack, Sep; Castleton, Sep; Clinton Hgts., Aug–Sep; Queechy L., Aug, *Schoon*; Kinderhook L., Sep; Poughkeepsie, *vanIngen*; NYC (Bks); **LI:** Sea Cliff, Sep–Oct (Bks).

A. trifolium var. **candicans** McCook. Wilmington Notch, Aug; Ithaca (Comstock); Taughannock Falls, Aug; Juanita I., Sep, *Leon*.

ARGIOPE Audouin

A. aurantia Lucas. Saranac L., Aug; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Rochester, Sep–Oct; Irving, Sep; Naples, Aug; Trumansburg, Aug; Taughannock Falls, Aug, *Dt*; Valcour I., Aug; Ithaca, Aug–Sep; Albany, Aug–Sep; Menands, Aug; Rensselaer, Sep; Kinderhook, Sep; Kinderhook L., Aug, *Schoon*; Poughkeepsie, *vanIngen*; Beacon, Aug; Brooklyn, *Pike*; NYC, Sep–Oct; **LI:** Sea Cliff (Bks).

A. trifasciata Forskal. Wilmington, Aug; Saranac L., Aug; Crater Club, Aug; Watertown, Sep, *Plm*; Johnstown, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Aug; Lake Bluff, Jl, Sep; Rochester, Sep–Oct; Irving, Sep, *Chad*; Ithaca, Sep–Oct; Albany, Sep–Oct; Leeds, Aug, *Chad*; Rensselaer, Sep–Oct; Schodack, Sep; Kinderhook, Sep; Kinderhook L., Aug, *Schoon*; Valcour I., Aug; Poughkeepsie, *vanIngen*; Highland, Aug; **LI,** Aug–Sep (Bks).

CYCLOSA Menge

C. conica Pallas. L. Placid, Sep; Onondaga Co (Britcher); Rochester; Watkins Glen, Oct; Enfield Glen, Oct; Ithaca; Vrooman's Nose, May; Stamford, May; Gloversville, Oct; Albany, Sep; Meadowdale, May; Thacher Pk., Je; Queechy L., May, *Schoon*; E. Schodack, Sep, *Yg*; Waldorf, Sep, *Yg*; Riders Mills, May, *Chrisp*; Copake Falls, Ap; Valcour I., Aug; Oakland Val., May; **LI:** Baiting Hollow, May.

C. turbinata Walck. Mountain L., Je, *Alex*; Gloversville, Oct, *Alex*; Tully (Britcher); Ithaca (Bks); Albany (Htz); **LI:** Sea Cliff (Bks).

EUCTA Simon

Compiled by R. M. SEELEY

E. lacerta Walck. Wilmington, Aug; Saranac L., Aug (Em); Tully (Britcher); Long Branch, Sep, *Britcher*; Sodus Bay, Sep; Lake Bluff, Sep; Rochester, *Franck*; Pt. Breeze, Je; Cinnamon L., Sep; Ithaca, Aug.

E. vermiformis Em. Clyde, Aug; Lake Bluff, Aug; Cinnamon L., Jl; Ithaca, *Bks*; Labrador Pond, Je; Voorheesville, Je; **LI,** Jl (Bks).

EUGNATHA Audouin

Compiled by R. M. SEELEY

E. pallescens Cambr. Cinnamon L., Sep; Ithaca, May; Labrador Pond, Je; Watervliet, *Leon*; Voorheesville, Je; Rensselaer, Sep, *Schoon*; Burden L., Jl, *Schoon.*

E. straminea Em. Trenton Falls, Je; Onondaga Co (Britcher); Painted Post, Sep; Interlaken, Jl; Enfield Glen, May; Ithaca, Jl, Oct; McLean, May; Labrador Pond, May–Je, *Tarris*; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Pompey, Sep, *Britcher*; Jamesville, Oct, *Britcher*; Onondaga Val., *Britcher*; Baldwinsville, Sep, *Britcher*; Thompson L., May; Normansville, Jl; Voorheesville, Je; Rensselaer, Sep, *Schoon*; Tackawasick Pond, Je.

EUSTALA Simon

E. anastera Walck. Axton, *MacG, Houghton*; Saranac L., Aug; Gloversville, May, *Alex*; Onondaga Co (Britcher); Rochester, *Franck*; Irving, Sep, *Chad*; Ithaca, Sep–Oct; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff, Je (Bks).

GLENOGNATHA Simon

G. foxi McCook. Ithaca, Jl.

GLYPTOCRANIUM Simon

G. bisaccatum Em. Eastwood (Britcher); Larchmont, Feb; **LI,** Sep (Bks).

G. cornigerum Htz. Ithaca, Nov, *Ilg.*

LARINIA Simon

L. borealis Bks. **LI:** Sea Cliff, Je (Bks).

LEUCAUGE White

L. venusta Walck. Gloversville, Ap, Aug, *Alex*; Johnstown, Sep, *Alex*; Onondaga Co (Britcher); Otto, Sep; Rochester, *Franck*; Taughannock Falls, Je; Ithaca, Je, Aug–Sep; Labrador Pond, Je; Deruyter L., Jl; Crystal L., Jl; Poughkeepsie, *vanIngen*; **LI:** Cold Sp. Harb., *And.*

MANGORA Cambridge

M. gibberosa Htz. Wilmington Notch, Aug; Wilmington, Aug; Crater Club, Aug; Wells, Jl, *Yg*; Gloversville, Aug–Sep, *Alex*; Onondaga Co (Britcher); Barcelona, Sep; Ithaca, Aug–Sep; Albany, Jl; Central Nassau, Jl; Valcour I., Aug; Poughkeepsie, *vanIngen*; NYC (Bks); **LI** (Bks).

M. maculata Key. Albany, Jl; Poughkeepsie, *vanIngen*; **LI** (Bks).

M. placida Htz. Cranberry L. (Barrows); Onondaga Co (Britcher); Ithaca, Je, Sep; McLean, May–Je; Enfield Glen, Oct; Queechy L., May, *Schoon*; Riders Mills, May, *Chrisp*; Little Pond, Orange Co, May; Oakland Val., May; **LI** (Bks).

META C. Koch

M. menardi Latreille. Avalanche L., Jl; Sacandaga Pk., Je, *Alex*; Ausable Chasm, Sep, *Leon*; Onondaga Co (Britcher); Ithaca, Aug–Oct; Elmira, Jl; Binghamton; Thacher Pk., May–Je; E. Berne, Je; Valcour I., Aug; Sam's Pt., May.

METEPEIRA F. Cambridge

M. labyrinthea Htz. Wilmington, Aug; Saranac L., Aug; Baldwinsville (Britcher); Glen Haven, Sep, *Plm*; Niagara Falls, Sep, *Kngt*; Ithaca, Sep–Oct; Elmira, Jl; Willow Pt., Canandaigua L., Aug; Poughkeepsie, *vanIngen*; **LI:** Aug–Sep (Bks); Sea Cliff, Je (Bks).

MICRATHENA Sundevall

M. gracilis Walck. Ithaca (Bks); Poughkeepsie, *vanIngen*; Mt. Vernon, NYC (Marx); **LI:** Wading R., Sep, *Burns*; Riverhead (Sound Beach), Sep.

M. reduviana Walck. **LI:** Riverhead (Sound Beach), Sep.

M. sagittata Walck. Middletown, Jl, *Meyer*; Mt. Vernon, Sep, *Felt*; **LI:** Riverhead (Sound Beach), Sep.

NEOSCONA Simon

N. arabesca Walck. Axton, *MacG, Houghton*; Wilmington, Aug; Mt. Marcy, Sep; Cranberry L. (Barrows); Wells, Jl, *Yg*; Gloversville, Ap, Aug, *Alex*; Woodworth's L., Jl, *Alex*; Onondaga Co (Britcher); Rochester; Hemlock L., Aug; Cinnamon L., Sep; Ithaca, Sep–Oct; Ringwood, Oct; McLean, Jl–Aug; Taughannock Falls, Aug, *Dt*; Oak Ridge, Canandaigua L., Aug; Albany, Aug–Sep; Grafton, Aug, *Chad*; Valcour I., Aug; Juanita I., Jl; Pearl Pt., Jl; Elizabeth I., Jl; Bumps Pond, Jl; Tongue Mt., Warren Co, Sep, *Leon*; Oakland Val., May; Stamford, Je; Poughkeepsie (Bks); Highland, Aug, *Wlf*; NYC, *Plm*; **LI:** Sea Cliff, Je (Bks).

N. benjamina Walck. Wilton, Jl; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Ithaca, Sep–Oct (Bks); Albany, Sep; Rensselaer, Sep; Grafton, Aug; Valcour I., Aug; Catskill, Aug, *Chad*; Highland, Aug, *Wlf*; **LI:** Sea Cliff, Oct (Bks).

N. pratensis Htz. Ithaca (Bks); Albany, Sep.

NESTICUS Thorell

N. pallidus Em. Dormansville, Je.

PACHYGNATHA Sundevall

P. autumnalis Key. Syracuse (Britcher); Ithaca, May, Oct, Dec; **LI** (Bks).

P. brevis Key. Green L., Fulton Co, Jan, *Dt*; Syracuse (Britcher); Tully (Britcher); Ithaca, Mar, Nov–Dec; McLean, May; Queechy L., Aug, *Schoon*; Poughkeepsie, *vanIngen*; Little Pond, Orange Co, May; **LI,** Oct (Bks).

P. mccooki Bks. Ithaca (Bks).

P. tristriata C. Koch. Cranberry Cr., Aug; Gloversville, Mar–May, Sep, Oct; **LI**, *Key*.

SINGA C. Koch

S. pratensis Em. Pompey Hill, Onondaga Co (Britcher); Riders Mills, May.

S. maculata Em. Tully (Britcher); Jamesville (Britcher); Ithaca (Bks); Poughkeepsie, *vanIngen*; **LI** (Bks).

S. variabilis Em. Axton, *MacG, Houghton*; Wilmington, Aug; Saranac L., Aug; Newcomb, Jl; Tully (Britcher); Ithaca (Bks); Ringwood, Oct; **LI**, Oct (Bks).

TETRAGNATHA Latreille

Compiled by R. M. SEELEY

T. elongata Walck. Cranberry L. (Barrows); Beaver R., Jl, *Yg*; Old Forge, Jl; Wells, Jl, *Yg*; Trenton Falls Je; Pompey (Britcher); Lake Bluff, Aug–Sep; Clyde, Jl–Aug; Rochester, *Franck*; Warsaw, Aug; Oak Ridge, Canandaigua L., Aug; Cinnamon L., Jl; Ithaca, Jl–Oct; McLean, Je, *Palmer*; Valcour I., Aug; Elizabeth I., Jl; Juanita I., Jl; Kattskill Bay, Aug; Pearl Pt., Jl, Aug–Sep; L. George, Jl–Aug; Voorheesville, Jl–Aug, *Leon*; Rensselaer, May, *Schoon*; Burden L., Jl, *Schoon*; Tackawasick Pond, Je; Kinderhook L., Je, Sep, *Schoon*; Cossayuna L., May, *Schoon*; Poughkeepsie, *vanIngen*; Saugerties, Jl–Aug; W. Shokan, Jl; Ashokan, Aug, *Treadwell*; NYC (Bks); **LI**: Cold Sp. Harb., Je, *Dt*; Rockaway Beach, Sep, *Pike*; Hoversville, Je.

T. extensa L. Paul Smiths, Jl, *Babiy*; Mt. McIntyre, Je; Axton, *MacG, Houghton*; Adirondack Lodge, Jl; Keene Val., Je, *Not*; Chapel Pond, Je; Upper Ausable L., Jl, *Not*; Artist's Br., Je; Speculator, Je–Jl, *Yg*; Wells, Jl; Old Forge, Jl–Aug, *Ndm*; Sacandaga Pk., Je, *Alex*; Johnstown, Jl–Aug, *Alex*; Mountain L., Je, *Alex*; Trenton Falls, Je; Clayville, Je; Oneida L., Aug; Crocketts, Sep, *Chap*; Sodus Bay, Sep; Rochester, *Franck*; Charlotte, *Plm*; Hemlock L., Aug; Letchworth Pk., Jl; Chautauqua Co, *Palmer*; Howard, Jl; Penn Yan, Jl, *Babiy*; Cinnamon L., Je–Jl; Montour Falls, Sep; Alpine, Nov; Enfield Glen, May; Glenwood, Aug; Ithaca, Je–Oct; Caroline Center, May; McLean, May–Jl; Freeville, Sep; Ringwood, Jl; Owasco L., Nov; Baldwinsville, Sep, *Britcher*; Long Branch, Sep, *Britcher*; Jamesville, Oct; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Labrador Pond, May–Je, *Tarris*; Deruyter L., Jl; Valcour I., Aug; Pearl Pt., Jl; Juanita I., Jl; Tongue Mt., Warren Co, Sep, *Leon*; Shelving Rock, L. George, Jl, Sep; Cossayuna L., May, *Schoon*; Bumps Pond, Jl; Thompson L., Sep, *Chad*; Mud Hollow Pond, Je; Voorheesville, Je–Jl, *Leon*; E. Berne, Je; Waldorf, Oct; Poestenkill, Je, *Yg*; Tackawasick Pond, Je; Riders Mills, May; Kinderhook, Je, Aug, *Schoon*; L. Charlotte, Je; Hunter, Aug; Wappingers Falls, May; L. Katrine, Sep; Ashokan, Aug, *Treadwell*; Oakland Val., May; Pinekill, May; **LI**: Cold Sp. Harb., Je, *And*; Smithtown, Je, *Leon*; Long Pond, Suffolk Co, Je.

T. laboriosa Htz. Black Br., Je; Peru, Je; Keene Val., Jl, *Not*; Ausable R., Aug; Mt. McIntyre, Aug; Paul Smiths, Jl, *Babiy*; Saranac L., Aug (Em); Cranberry L. (Barrows); Wells, Jl, *Yg, Babiy*; Sacandaga Pk., Je, *Alex*; Bleecker, Sep; Woodworth's L., Je, *Alex*; Trenton Falls, Je; Waterville, Aug; Clayville, Jl; Smithville, Aug; Baldwinsville (Bks); Lake Bluff, Sep; Honeoye Falls, Jl; Pt. Breeze, Je; Lakeside, Jl; Barre Center, Je; Irving, Sep; Penn Yan, Aug; Cinnamon L., Je–Jl, Sep; Taughannock Falls, Jl; Ithaca, Jl–Aug;

Ringwood, Jl, *Dt*; Otisco, Aug, *Britcher*; Onondaga Val., Je, *Britcher*; Pompey, Sep, *Britcher*; Apulia, Oct, *Britcher*; Tully, Oct, *Britcher*; Valcour I., Jl–Sep; Juanita I., Jl–Sep; Watervliet Reservoir, Aug, *Leon*; Mud Hollow Pond, Albany Co, Je; Tackawasick Pond, Je; Pike Pond, Je; Stamford, Je; Columbia Co; Kingston; Sam's Pt., May; Rhinebeck, Oct; Ashokan, Aug, *Treadwell*; Lagrangeville, May; Wappingers Falls, May; Oakland Val., May; NYC (Bks); **LI**: Bergen Beach, Je; Flatbush, Jl, *Pike*; Cold Sp. Harb., Je, *And*; Rockaway Beach, Sep, *Pike*; Shinnecock Hills, Je.

THERIDIOSOMA Cambridge

T. gemmosum L. Koch. Wilmington Notch, Aug; Mt. Whiteface, Aug; Chapel Pond, Je; L. Colden, Jl; Cranberry L. (Barrows); Woodworth's L., Jl., *Alex*; Johnstown, Jl, *Alex*; Jamesville; Ithaca, Aug; Enfield Glen, Oct; Rensselaer, Jl, *Schoon*; Larchmont, Sep, *Wlf*; Central Nassau, Jl; **LI**, Je (Bks).

ZILLA C. Koch

Z. montana C. Koch. Mt. McIntyre, Jl; Caroline Center, May; Thacher Pk., Je; Dormansville, Je.

Z. x-notata Cl. NY (McCook).

FAMILY MIMETIDAE

ERO C. Koch

E. furcata Vill. Wilmington Notch, Aug; Rye Pt., Sep; Penn Yan, Aug; Savona, Sep; Cinnamon L., May; Ithaca, Mar; Canastota, Mar, *Faure*; Vrooman's Nose, May; Dormansville, Je; Juanita I., Aug; **LI**, Sep (Bks).

MIMETUS Hentz

M. interfector Htz. Pompey (Britcher); Crosby, Ap; Freeville, Aug–Sep; Enfield Glen, Oct; Ithaca, Jl–Sep; Karner, Ap, *Yg*; **LI**: Sheepshead Bay, Jl.

FAMILY THOMISIDAE

EBO Keyserling

E. latithorax Key. Onondaga Co (Britcher); **LI**, Sep–Oct (Bks).

MISUMENA Latreille

M. vatia Cl. Wilmington, Aug; Crater Club, Aug; Axton, *MacG*, *Houghton*; Saranac L., Aug; Cranberry L. (Barrows); Little Sandy Pond, Jefferson Co, Je, *House*; Wilton, Jl (Hoffman); Gloversville, Ap–May, Jl, *Alex*; Woodworth's L., May, Jl, *Alex*; Johnstown, Jl–Aug, *Alex*; Mountain L., May, *Alex*; Onondaga Co (Britcher); White L., Oneida Co, Jl; Lake Bluff, Aug; Rochester, *Franck*; Howard, Jl; Ithaca, May, Jl, Sep; Delaware L., May; McLean, May; Slaterville, May; Kirkland, Jl; Schenectady, Jl, *Yg*; Valley Falls, May, *Yg*; Central Nassau, Jl; Valcour I., Aug; Poughkeepsie, *vanIngen*; **LI**, May–Je, Oct.

MISUMENOIDES Cambridge

M. aleatorius Htz. Old Forge, Je; Woodworth's L., May, *Alex*; Onondaga Co (Britcher); Rochester; Irving, Sep, *Chad*; Taughannock Falls, Aug, *Dt*; Ithaca, Aug (Bks); McLean, May; Albany, Aug; Catskill, Sep, *Chad*; Castleton, Sep, *Plm*; Poughkeepsie, *vanIngen*; Patterson, Aug; **SI:** Tottenville, Aug, *Ds*; **LI,** Aug (Bks).

MISUMENOPS Cambridge

M. asperatus Htz. Wilmington, Aug; Gloversville, Aug, *Alex*; Sacandaga Pk., Je, *Alex*; Ithaca, Oct; Oakland Val., May; **LI** (Bks).

M. celer Htz. Ithaca (Bks).

M. oblongus Key. Onondaga Co (Britcher); **LI,** Jl (Bks).

OXYPTILA Simon

O. americana Bks. Ithaca, Oct (Bks).

O. conspurcata Thor. Wilmington Notch, Aug; Ithaca, Je; McLean, May; Riders Mills, May; Poughkeepsie (Bks); Paradise, May; Oakland Val., May; **LI:** Sea Cliff, Oct (Bks).

O. monroensis Key. **LI:** Sea Cliff (Bks).

PHILODROMUS Walckenaer

P. aureolus Cl. Axton, *MacG, Houghton;* Sacandaga Pk., Jl, *Alex*; Oakland Val., May; **LI,** Jl (Bks).

P. bidentatus Em. Valcour I., Aug.

P. canadensis Em. Rochester; Plattsburg, Sep, *Plm*; Juanita I., Jl.

P. exilis Bks. Freeville, May (Bks); Albany, Je.

P. infuscatus Key. Interlaken, Nov; Ithaca, Sep (Bks); Poughkeepsie, *vanIngen.*

P. lineatus Em. Onondaga Co (Britcher).

P. maculatus Blackw. Ithaca (Bks).

P. minutus Bks. Enfield, Je; Ithaca (Bks).

P. ornatus Bks. Onondaga Co (Britcher); Howard, Jl; Ithaca (Bks); Poughkeepsie, *vanIngen.*

P. pernix Blackw. Newcomb, Jl; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Rochester, Je; Ithaca, Mar, Je–Jl, Nov–Dec; Albany, Ap; Thacher Pk., Je; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff, Je (Bks).

P. placidus Bks. Ithaca (Bks); **LI,** Jl (Bks).

P. robustus Em. **LI:** Bayville (Bks).

P. rufus Walck. Axton, *MacG, Houghton*; Wilmington Notch, Jl; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Ithaca, May, Oct; Vrooman's Nose, May; Riders Mills, May; Valcour I., Aug; Mt. Utsayantha, May, *Chrisp*; Stamford, May; Oakland Val., May; **LI** (Bks).

SYNAEMA Simon

S. bicolor Key. Sacandaga Pk., Je, *Alex.*

THANATUS C. Koch

T. coloradensis Key. Onondaga Co (Britcher); Rochester, Nov, *Chad*; McLean, Jl; Voorheesville, Je; Clinton Hgts., *Yg*; Valcour I., Aug; Rensselaer, Dec, *Schoon*; Defreestville, Mar; L. Katrine, Oct.

T. rubicundus Key. **LI,** Oct (Bks).

TIBELLUS Simon

T. oblongus Walck. Axton, *MacG, Houghton*; Cranberry L. (Barrows); Saranac L., Aug; Sacandaga Pk., Je, *Alex*; Johnstown, Je, *Alex*; Woodworth's L., Jl; Onondaga Co (Britcher); Pt. Breeze, Je; Junius Bog, Je; Cinnamon L., Je; Ithaca, May, Jl; McLean, May; Valcour I., Aug; Albany, Je; Rensselaer, Jan, *Schoon*; **LI,** Jl (Bks).

TMARUS Simon

T. angulatus Walck. Onondaga Co (Britcher); Ithaca, Sep; McLean, May; Central Nassau, Jl; **LI,** Jl (Bks).

XYSTICUS C. Koch [185]

X. acquiescens Em. Scotia, Je, *Yg*.

X. elegans Key. Johnstown, Jl, *Alex*; Ithaca, Jl; McLean, May; Menands, Jl; Rensselaer, Je, *Schoon*; L. George, Aug; **LI:** Brooklyn (Em).

X. ferox Htz. Johnstown, Sep, *Alex*; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Geneva, Je; Ithaca, Ap, Je, Oct–Nov; Spencer, Je; Ringwood, Jl; Albany, Je; Rensselaer, Je, *Schoon*; Poughkeepsie, *vanIngen*; **SI:** Tottenville, Je; **LI:** Sheepshead Bay, Jl.

X. formosus Bks. Wilmington, Aug; Varna, Mar; McLean, May; Dormansville, Je; Tackawasick Pond, Je; Oakland Val., May.

X. fraternus Bks. **LI,** May (Bks).

X. graminis Em. Ithaca (Bks); McLean, May; **LI** (Bks).

X. gulosus Key. Gloversville, Ap, Aug, Oct, *Alex*; Barnevelt, Sep; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, Oct–Nov; Manlius, *Smith*; Dormansville, Oct; Rensselaer, Oct, *Schoon*; Coxsackie, Mar; Poughkeepsie, *vanIngen*; **LI:** (Pike); Sea Cliff, Je (Bks).

X. limbatus Key. Wilmington Notch, Aug; Cranberry L. (Barrows); Saratoga, Je; Onondaga Co (Britcher); Bath, Aug; Enfield, May; Ithaca (Bks); Stamford, May, *Chrisp*; Dormansville, Je; Schenectady, Dec, *Dt*; L. Charlotte, Je; Poughkeepsie, *vanIngen*; **LI:** Brooklyn (Pike); Quogue, Ap; Long Pond, Suffolk Co, Je.

X. luctans C. Koch. Johnstown, Aug, *Alex*; Gloversville, Oct, *Alex*; Onondaga Co (Britcher); Ithaca, May, Aug; Clayville, Je; Rensselaer, Oct, *Schoon*; Nassau L., Sep; Wappingers Falls, May.

X. nervosus Bks. Gloversville, Ap, Oct, *Alex*; Pulaski, Nov; Lake Bluff, Sep; Lewiston, Sep, *Plm*; Howard, Jl; Hall, Sep, *Glasgow*; Ithaca, Aug–Nov; Crosby, Sep; Kenwood, Oct, *Plm*; Poughkeepsie, *vanIngen*; L. Katrine, Oct, *Plm*; **LI:** Aug–Sep (Pike, Bks); Sea Cliff, Je (Bks).

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[185] Miss Augusta Wolf is responsible for many of the determinations in this genus.

X. triguttatus Key. Axton, *MacG*, *Houghton*; Johnstown, May, *Alex*; Sacandaga Pk., Je, *Plm*; Barnevelt, May; Hilton, Je; Ithaca, Je–Jl, Sep; Ringwood, Jl; Trenton Falls, Je; Clayville, Je; Central Nassau, Jl; Burden L., Je; Tackawasick Pond, Je; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff, Je.

X. versicolor Key. Cranberry L. (Barrows); Gloversville, Ap, Oct, *Alex*; Onondaga Co (Britcher); Geneva, Nov, *Glasgow*; L. Keuka, Sep; Ithaca, May, Nov; W. Winfield, Je; Valcour I., Aug; Scotia, Je, *Yg*; Karner, Nov; Albany, Je; Poughkeepsie, *vanIngen*; **LI,** Mar, Nov (Bks).

FAMILY **CLUBIONIDAE**

AGROECA Westring

A. minuta Bks. **LI:** Sea Cliff, May (Bks).

A. ornata Bks. Wilmington, Aug; Olcott, Sep; Clarksburg, Sep; Stow, Sep; Letchworth Pk., Jl; Ithaca, Ap, Oct; Elizabeth I., Aug; Oakland Val., May; Sterlington, May; **LI,** May (Bks).

A. pratensis Em. Wilmington Notch, Aug; Elizabethtown, Aug; Onondaga Co (Britcher); Enfield, May; Ithaca, Feb–Ap, Oct, Dec; McLean, May; Juanita I., Jl; Albany (Em); Guilderland Center, Dec; Poughkeepsie, *vanIngen*; **LI:** Forest Hills, Mar.

ANYPHAENA Sundevall

A. celer Htz. Onondaga Co (Britcher); L. Keuka, Oct; Ithaca, Jan–Mar, Je, Oct–Nov; McLean, May; Normansville, Nov; Feura Bush, Dec; Rensselaer, Mar, *Schoon*; Poughkeepsie, *vanIngen*; Larchmont, Sep, *Wlf*; Dunwoodie, May, *Pioneer Youth*; **SI:** Clove Val., Nov; **LI:** Flushing, Nov.

A. fraterna Bks. **LI:** Roslyn, May (Bks); Sea Cliff, Je (Bks).

A. gracilis Htz. **LI,** Oct (Bks).

A. pectorosa L. Koch. Albany, Je; **LI:** Farmingdale, Je.

A. rubra Em. **LI:** Cold Sp. Harb., Je, *And.*

A. saltabunda Htz. Enfield Glen (Bks); Ithaca, Sep (Bks); **LI:** Cold Sp. Harb., Je, *And.*

APOSTENUS Westring

A. acutus Em. **LI** (Em).

CASTANEIRA Keyserling

C. cingulata C. Koch. Onondaga Co (Britcher); Cinnamon L., Jl; Ithaca, Aug; Juanita I., Jl, Sep; S. Westerlo, May; Poughkeepsie, *vanIngen*; **LI:** Sea Cliff, May (Bks).

C. descripta Htz. Wilmington, Aug; N. Elba, Jl; Cranberry Cr., Aug; Onondaga Co (Britcher); Ithaca, May, Aug, Oct; Valcour I., Aug; Kenwood, Sep; S. Rensselaer, Jl; Poughkeepsie, *vanIngen*; **LI,** Aug.

C. longipalpus Htz. Onondaga Co (Britcher); Ithaca (Bks); Burden L., Aug, *Schoon*; **LI,** Aug (Bks).

C. trilineata Htz. **LI:** Sea Cliff, Jl–Aug (Bks).

CHIRACANTHIUM C. Koch

C. inclusum Htz. Cranberry L. (Barrows).

CLUBIONA Latreille

C. abboti L. Koch. Wilmington Notch, Jl; Gloversville, Ap, *Alex*; Lake Bluff, Sep; Cinnamon L., Jl; Spencer, Je; Ithaca, Feb, May, Oct; McLean, May; Juanita I., Jl; Albany, Je (Hartman); Rensselaer, Jl, *Schoon*; Wappingers Falls, May; Kingston, Aug, *Schoon*; Stamford, May, *Chrisp*; Slide Mt., Je; Cragsmoor, May; Maratanza L., May; Pine I., May; Hunter, Je, *Plm*; **LI:** Gardiners I., May; Montauk Pt., May.

C. canadensis Em. Wilmington, Aug; Mt. Whiteface, Aug; Mt. McIntyre, Jl; L. Keuka, Oct; Cinnamon L., Jl; Ithaca, Oct; Riders Mills, May; Slide Mt., Je; Stamford, May, *Chrisp*.

C. emertoni Petrunk. Lake Bluff, Sep; Freeville, May; Juanita I., Aug; Little Pond, Orange Co, May; **LI,** Oct (Bks).

C. lenta Bks. Ithaca, Sep (Bks).

C. littoralis Bks. **LI:** Sea Cliff, Je (Bks).

C. minutissima Petrunk. Ithaca, Nov (Bks); Interlaken, Aug; **LI:** Sea Cliff, Jl (Bks).

C. obesa Htz. Sacandaga R., Je, *Alex*; Lake Bluff, Sep; Clyde, Sep; Rochester; Youngstown, Oct; Crosby, Ap; Ithaca, May, Oct, Nov; Newfield, Je; McLean, May; Albany, Je; Thacher Pk., May; Cossayuna L., May, *Schoon*; Queechy L., May, *Schoon*; Juanita I., Jl; Cragsmoor, May; Oakland Val., May; **LI:** Sea Cliff, Dec (Bks); Roslyn, Dec (Bks).

C. pallens Htz. Oak Ridge, Canandaigua L., Aug; Ithaca, Nov; Voorheesville, Je; Juanita I., Jl; Elizabeth I., Aug; Shelving Rock, Sep, *Leon*; Wappingers Falls, May; **LI:** Oct, Dec (Bks); Baiting Hollow, May.

C. pygmaea Bks. Ithaca, Sep, Nov (Bks); **LI,** Jl (Bks).

C. riparia L. Koch. Sacandaga Pk., Je; Onondaga Co (Britcher); Ithaca (Bks); McLean, May; Scotia, Je, *Yg*; Albany, Je; Delmar, Jl; Riders Mills, May; Poughkeepsie, *vanIngen*; **LI,** Dec (Bks).

C. tibialis Em. Ithaca, Aug (Bks); **LI** (Bks, Em).

LIOCRANUM L. Koch

L. calcaratum Em. Mt. Whiteface, Aug (Em); Wilmington, Aug; Auger Pond, Nov; Uphill Br., Opalescent R., Jl; Connecticut Hill, Oct.

MICARIA Westring

M. agilis Bks. **LI:** Sea Cliff (Bks).

M. aurata Htz. Onondaga Co (Britcher); Ithaca, Aug–Sep (Bks); **SI** (Bks); **LI** (Em).

M. gentilis Bks. Clyde, Ap.

M. montana Em. Onondaga Co (Britcher); **LI** (Bks).

PHRUROLITHUS C. Koch

P. alarius Htz. Malone, Oct; Stow, Sep; Lakeside, Jl; Letchworth Pk., Jl; Cheshire, Oct; Guyanoga, Je; L. Keuka, Sep; Barrington, Oct; Taughannock Falls, Mar, Jl; Ithaca, May–Je, Aug, Dec; Deruyter L., Jl; Labrador Pond, Je; Tackawasick Pond, Je; Dormansville, May; Albany, Jl; Crystal L., Jl; S. Westerlo, May; Sam's Pt., May; **LI:** Montauk Pt., May.

P. britcheri Petrunk. Onondaga Co, *Britcher*.

P. formica Bks. Silver Bay, Sep, *Leon*; Spencerport, May; Sam's Pt., May; **LI**, Dec (Bks).

P. minutus Bks. Ithaca, Sep (Bks).

P. palustris Bks. Lake Bluff, Sep; Barcelona, Sep; Stow, Sep; Richburg, Sep; Little Valley, Sep; Alabama, Je; Rye Pt., Sep; Barrington, Oct; Savona, Sep; Cinnamon L., Jl; Taughannock, Aug; Enfield, Je; Ithaca, Aug; McLean, May–Je; L. George, Aug; Feura Bush, Dec; Crystal L., Jl; Thacher Pk., May; Vrooman's Nose, May; Little Pond, Orange Co, May; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*; **SI**: Clove Val., Nov; **LI**: Flushing, Je; Sea Cliff, Je; Garden City, Je; Baiting Hollow, Ap.

P. pugnatus Em. Ithaca (Bks); Karner, Mar; Little Pond, Orange Co, May; Sam's Pt., May.

P. similis Bks. McLean, May; **LI**: Sep–Oct (Bks); Gardiners I., May.

TRACHELAS L. Koch

T. deceptus Bks. **LI**: Sea Cliff, Sep–Oct (Bks); Gardiners I., May; Montauk Pt., May.

T. tranquillus Htz. Onondaga Co (Britcher); Clyde, Aug–Sep; Glen Haven, Sep; Rochester; Hall, Sep, *Glasgow*; Geneva, Nov, *Glasgow*; L. Keuka, Oct; Taughannock Falls, Oct; Ithaca, Jan, Aug–Oct; Utica; Albany, Sep–Oct; Rensselaer, Jl, Sep, Oct, *Schoon*; Poughkeepsie, *vanIngen*; NYC (Bks); **LI**: Sea Cliff, Sep, *Wlf*, *Taub*.

ZORA C. Koch

Z. spinimana Sund. **LI**: Baiting Hollow, May.

FAMILY AGELENIDAE

AGELENA Walckenaer

A. naevia Walck. Mt. Marcy, Aug; Wilmington, Aug; Upper Jay, Sep, *Plm*; Chateaugay L., Sep, *Plm*; Cranberry L. (Barrows); Watertown, Sep, *Plm*; Big Moose, Aug, *Plm*; Raquette Falls, Aug; Gloversville, Aug–Sep, *Alex*; Johnstown, Aug, *Alex*; Cazenovia, Sep; Baldwinsville; E. Onondaga, Sep; Clyde, Aug; Lake Bluff, Jl, Sep; East Bay, Sep; Cayuga, Oct, *Chad*; Rochester, Nov, *Chad*; Geneva, Nov, *Glasgow*; Hornell, Sep; Glen Haven, Sep; Alpine, Sep; Cinnamon L., Sep; Interlaken, Nov; Ithaca, Jl–Nov; Ringwood, Jl–Aug; Albany, Jl, Sep; Kenwood, Sep–Oct; Rensselaer, Jl–Sep, *Schoon*; Lyon's L., Aug; Plattsburg, Sep, *Plm*; Valcour I., Aug; Elizabeth I., Jl–Aug; Juanita I., Jl; Black Mt., Washington Co; Jabe Pond, Sep, *Leon*; Stockport, Sep, *Plm*; Poughkeepsie, *vanIngen*; Wappingers Falls, May; Catskill, Sep, Nov; Kingston, Aug–Sep, *Schoon*; L. Mahopac, Sep, *Fox*; Hunter, Aug, *Mills*; Tuxedo, Oct, *Wlf*; Van Cort. Pk., Sep, *Plm*; **SI**: Clove Val., Nov; Silver L., Aug; **LI**: Brooklyn (Em); Jamaica, Oct; Forest Hills, Nov; Sea Cliff; Mattituck, Aug.

CICURINA Menge

C. arcuata Key. Old Forge, Oct, *Sib*; Gloversville, Oct, *Alex*; Mountain L., Ap; Lake Bluff, Sep; Olcott, Sep, *Dt*; Newfane, Oct; Little Valley, Sep; Richburg, Sep; Clarksburg, Sep; W. Barre, Sep; Guyanoga, Je; Penn Yan, May;

Egleston's Glen, Sep; Cayuga, Oct, *Chad*; Alpine, Nov; Connecticut Hill, Aug–Oct; Interlaken, Nov; Enfield Glen, Ap; Danby, Oct; Ithaca, Ap, Oct; McLean, Ap–May; Cascade, Nov; Pearl Pt., Jl; Meadowdale, Ap–May; Crystal L., Jl; Riders Mills, May, *Chrisp*; Schodack, Ap; Oakland Val., May; Sterlington, May; Larchmont, Sep, *Wlf*.

C. brevis Em. Wilmington, Aug; Wilmington Notch, Aug; High Falls, Aug; Auger Pond, Nov; Adirondack Lodge, Jl; Northville, Ap; Gilman L., Ap; Elizabethtown, Aug; Lake Bluff, Sep; Olcott, Sep, *Dt*; Stow, Sep; Richburg, Sep; Clarksburg, Sep; Little Valley, Sep; Rock City, Sep; Castile, May; Potter, May; Guyanoga, Je; Rye Pt., Sep; Egleston's Glen, Sep; Crosby, Dec; Penn Yan, May; Montour Falls, Sep; Connecticut Hill, Aug, Oct; Enfield, Aug, Oct; Danby, Oct; Ithaca, Ap–May, Oct; Freeville, May; McLean, Ap–May; Labrador Pond, Je; W. Winfield, Je; Valcour I., Aug; Slide Mt., Je; Juanita I., Aug; Trenton Falls, Je; Waterford, Ap; Altamont, Ap; Karner, Mar; Rensselaer, Nov; Cragsmoor, May; Pinekill, May; Tuxedo, Oct, *Wlf*; **LI:** Roslyn, Oct (Bks).

C. pallida Key. Newcomb, Jl; Charley L., Ap; Mt. Rouge, Hamilton Co, Jl, *Yg*; Rye Pt., Sep; Egleston's Glen, Sep; Guyanoga, Je; Penn Yan, Aug; Alpine, Nov; Ithaca, Mar–Ap; McLean, May; Cascade, Nov; Labrador Pond, Je; Altamont, Ap; S. Westerlo, May; Rensselaer, May, *Schoon*; Valcour I., Aug; Silver Bay, Sep, *Leon*; Poughkeepsie, *vanIngen*; Tuxedo, Oct, *Wlf*; Larchmont, Sep, *Wlf*.

C. placida Bks. Ithaca (Bks); Meadowdale, May; Crystal L., Jl; Sam's Pt., May; Cragsmoor, May.

COELOTES Blackwall

C. calcaratus Key. Wilmington Notch, Aug; Charley L., Ap; Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Cheshire, Oct; Penn Yan, May; Rye Pt., Sep; L. Keuka, Dec; Savona, Sep; Connecticut Hill, Oct; Ithaca, Ap–May, Aug; McLean, Ap–May; Cascade, Nov; Valcour I., Aug; Pearl Pt., Jl; Silver Bay, Sep, *Leon*; Poughkeepsie, *vanIngen*; Suffern, Ramapo Mts., May; Pinekill, May; Larchmont, Sep, *Wlf*.

C. fidelis Bks. Uphill Br., Opalescent R., Jl; Chateaugay L., Sep, *Plm*; E. Onondaga, Sep, *Plm*; Olcott, Ap; W. Barre, Sep; Bath, Mar; Painted Post, Sep; Rochester, Nov, *Chad*; Cayuga, Oct, *Chad*; Taughannock Falls, Mar; Enfield Glen; Spencer, Aug; Ithaca, Feb–May, Aug, Nov; McLean, Ap–May, Oct; Delhi, May; Albany, Ap; W. Berne, Ap; Delmar, Ap; S. Westerlo, May; Thacher Pk., Je; Meadowdale, May; Greenville, Ap; Vrooman's Nose, May; Averill Pk., Je, *Plm*; Rensselaer, Nov, *Schoon*; Riders Mills, May; Crown Pt., Sep, *Plm*; Juanita I., Jl; Shelving Rock, Sep, *Leon*; Delhi, May; Turner, Aug; Wappingers Falls, May; Hunter, Aug; Paradise, May; Pine I., May; Pinekill, May; Sam's Pt., May; Mt. Utsayantha, Oct; Tuxedo, Oct, *Wlf*.

C. hybridus Em. Chateaugay L. (Em); Adirondack Lodge, Jl; Gloversville, Je, Oct, *Alex*; E. Onondaga, Sep; Rochester, Sep–Oct; Glen Haven, Sep, *Plm*; Potter, May; Montour Falls, Oct; Enfield Glen, Ap; Ithaca, May, Aug (Bks); McLean Bogs, Ap; Altamont, Ap; New Salem, Ap; Thacher Pk., Je; Rensselaer, Ap; E. Schodack, Sep; Catskill, Oct, *Chad*; Elizabeth I., Aug; Poughkeepsie, *vanIngen*; Bronx Pk., Sep, *Plm*; **LI:** Sea Cliff (Bks).

C. montanus Em. Beaver R., Jl; Chateaugay L. (Em); Gilman L., Ap; McLean, Oct; Lake Bluff, Sep; Voorheesville, Ap; Valcour I., Aug.

C. nigriceps Bks. **LI:** Roslyn, Oct (Bks).

CORAS Simon

C. medicinalis Htz. Chateaugay L. (Em); Wilmington, Aug; Wilmington Notch, Aug; Gloversville, Oct, *Alex*; E. Onondaga, Sep; Hemlock L., Aug; Ithaca, Oct–Nov; Deruyter L., Jl; Schoharie (Em); Valcour I., Aug; **LI,** Jl (Bks).

CRYPHOECA Thorell

C. montana Em. Mt. Whiteface, Aug; Wilmington, Aug; Wilmington Notch, Jl–Aug; Uphill Br., Opalescent R., Jl; High Falls, Aug; Adirondack Lodge, Jl; Guyanoga, Je; Montour Falls, Sep; McLean, May; Slide Mt., May–Je; Mt. Utsayantha, May, *Chrisp*.

CYBAEUS L. Koch

C. giganteus Bks. Ithaca (Bks).

HAHNIA C. Koch

H. agilis Key. Wilmington Notch, Aug; Onondaga Co (Britcher); Lake Bluff, Sep; Otto, Aug; Olcott, Sep; Richburg, Sep; Rock City, Sep; Ithaca, May–Je, Aug; Slaterville, Aug; McLean, Ap; Deruyter L., Jl; Dormansville, Je; French Mills, Albany Co, Mar; Vrooman's Nose, May; Juanita I., Jl; Pine I., May; **LI:** Baiting Hollow, Ap.

H. brunnea Em. Cinnamon L., Je–Jl; Freeville, Ap, Aug; Ithaca (Em); McLean, May; Little Pond, Orange Co, May.

H. cinerea Em. Wilmington Notch, Aug; Wilmington, Aug; Newcomb, Jl; Olcott, Sep; Ithaca, Ap; Freeville, Aug; Labrador Pond, Je; Karner, Mar; Juanita I., Jl; Little Pond, Orange Co, May; Sam's Pt., May; **LI:** Riverhead, Ap.

H. radula Em. Ithaca (Bks).

TEGENARIA Latreille

T. domestica Cl. Tahawus, Jl; Onondaga Co (Britcher); Ithaca, May; Rochester; Albany, Mar; Kingston, Sep, *Schoon*; Poughkeepsie (Em).

FAMILY PISAURIDAE

DOLOMEDES Latreille

D. scriptus Htz. Newcomb, Sep, *House*; Chilson L., Essex Co; Chapel Pond, Jl; Cazenovia; Onondaga L., Sep, *Plm*; Clyde, Ap; Rochester, *Franck*; Locke; Ithaca, May, Jl, Sep; Enfield Glen, Je, Aug, Oct, *Ndm*; Glenwood, Aug, *Leon*; N. Lansing, Je; Elizabeth I., L. George, Jl–Aug; Juanita I., Pearl Pt., Jl; Bolton Landing, L. George, Jl; Kattskill Bay, Aug; Albany; Dormansville, Je; Slingerlands, Jl; Rensselaer, Mar, *Schoon*; Pike Pond, Rensselaer Co, Je; Nassau L., Mar, *Schoon*; E. Greenbush, Je, *Plm*; Burden L., Jl, *Schoon*; Tackawasick L., Je; E. Nassau, Je, *Wlf*; Kinderhook L., Sep, *Schoon*; Merrill; Valcour I., L. Champlain, Aug; Hoversville, Je; Riders Mills, May; Ashokan; Stamford, Je.

D. striatus Giebel. Ithaca; Ringwood; McLean Bogs, Sep; Kinderhook, Sep; Pine I., Orange Co., Sep.

D. tenebrosus Htz. Axton, *MacG*, *Houghton*; Keene Val., Jl; Deer I., Thousand Isls.; Saratoga (McCook); Johnstown, Aug, *Alex*; Gloversville, Aug, *Alex*; Mountain L., *Alex*; Manlius; Batavia (McCook); Hemlock L., Je; Ithaca,

Ap (Comst); McLean, Je; Berkshire; Thacher Pk., May; Valcour I., Aug; Elizabeth I., Jl; Juanita I., Aug; **LI**: Sea Cliff (Bks); Cold Sp. Harb.

D. triton sexpunctatus Htz. Brittons; Long Branch; Clyde, Sep; Sodus Bay, Sep; Sodus Pt., Sep; Rochester, *Franck*; Cinnamon L., Jl; Ithaca, Aug; McLean Bogs, May, Jl; Albany; Kenwood, May, *Plm*; Rensselaer, Je, *Schoon*; **SI**: Grasmere Sta; **LI**: Baldwin.

D. urinator Htz. Ithaca, Ap (Bks); Rensselaer, Aug, *Schoon*; Debruce; **LI**: Jamaica.

D. vittatus Walck. Green L., Onondaga Co; Ithaca, Mar; Voorheesville, Ap; Rensselaer, Je, *Schoon*; Nassau L., Sep, *Schoon*; New Rochelle, Ap; **LI** (Bks).

PISAURINA Simon

P. brevipes Em. **SI**: Watchogue, Jl, *Burns*; **LI**: Sands Pt., Sep, *Burns*.

P. mira Walck. Saratoga, Je; Brittons; Jamesville; Baldwinsville; Long Branch; Rochester, *Franck*; Otto, May; Honeoye Falls, May; Keuka L., Je; Taughannock Falls, Oct; Enfield, Oct; Ithaca, Jl, Sep, Nov; McLean Bogs, May; Albany, May–Je, Oct; Voorheesville, Dec; Riders Bridge, May; Selkirk, Sep; Rensselaer, Mar, *Schoon*; Valcour I., Je, *Hudson*; Bumps Pond, Jl; Fishkill Landing, Sep, *Plm*; **SI**: Hyde Pk.; **LI**: Flatbush; Oyster Bay, Ap, *Plm*; Cold Sp. Harb., Je.

P. mira var. **subinflata** Htz. Onondaga Val.; Baldwinsville; Indian Reservation, Onondaga Co; Enfield Glen, Aug; Riders Mills.

FAMILY LYCOSIDAE

ALLOCOSA Banks

A. funerea Htz. **LI**: Montauk Pt., May.

A. rugosa Key. Little Pond, Orange Co, May; **LI** (Em).

ALOPECOSA Simon

A. beanii Em. Gloversville, May, *Alex*.

ARCTOSA C. Koch

A. littoralis Htz. N. Fair Haven, Jl; Albany, May (Em); Rensselaer, Sep, *Schoon*; **SI**: Tottenville, Jl, *Ds*; **LI**: Cold Sp. Harb.

A. rubicunda Key. Upper Jay, Sep, *Plm*; Gloversville, Ap–May, *Alex*; Taughannock Falls, Aug, *Dt*; Ithaca, Mar; Caroline Depot, Ap; Albany; Clarksville, May; Pike Pond, Rensselaer Co, Je; E. Nassau, Je, *Wlf*; Wappingers Falls, May; **LI**, Oct (Bks).

LYCOSA Latreille

L. alpigena Dol. Mt. Marcy, *Adams*.

L. aspersa Htz. Hope, Aug; Wells, Oct, *Yg*; Chautauqua Co, Je; Ithaca, Aug; Naples, Aug; Burden L., Aug, *Schoon*; Elizabeth I., Jl; Tackawasick Pond, Je; **LI** (Chamb).

L. avara Key. Onondaga Co (Britcher); Rochester, *Franck*; Ithaca, Jan, Mar (Bks); L. Katrine, Oct, *Chad*; **LI**: Bayville, Dec (Bks).

L. avida Walck. Ballston L., Jl; Lake Bluff, Sep; Taughannock Falls, Aug; Ithaca, May, Jl–Aug, Oct; Spencer, Je, *Frost*; Trenton Falls, Je; Albany, Je; Thacher Pk., Je; Delmar, Jl; Voorheesville, Oct; Dormansville, Je; Thompson L., Je; Medusa, Ap; Mud Hollow Pond, Je; Rensselaer, May, *Schoon*; Hudson, May; Ancram, Je; Paradise, May; Goshen, May; **SI:** Tottenville, Je; Watchogue, Jl; **LI:** Wading R., Je.

L. baltimoriana Key. Gloversville, May, *Alex*.

L. carolinensis Walck. Schroon L., Aug; Chilson L., Sep; Wells, Jl, *Yg*; Galway, May, *Fuller*; Gloversville, Oct, *Alex*; Onondaga Co (Britcher); **LI:** Riverhead, Aug, *Ds*.

L. fatifera Htz. Sea Breeze, Sep.

L. frondicola Em. Wilmington, Aug; Upper Jay, Sep, *Plm*; Newcomb, Jl; Wells, Oct, *Yg*; Onondaga Co (Britcher); Otto, Sep; Penn Yan, Sep; Ithaca, May, Aug; Caroline Depot, Ap; Freeville, Sep; Slaterville, May; McLean, May; Deruyter L., Jl; Dormansville, Je; Thompson L., Je; Valcour I., Aug; Spruce Mountain, L. George, Sep, *Leon*; Elizabeth I., Jl–Aug; Vrooman's Nose, May; Catskill, Aug, *Chad*; Spooky Hollow, Greene Co, *Chad*; Stamford, Oct; Milton, Ap; L. Charlotte, Je; Wappingers Falls, May; L. Katrine, Oct; Paradise, May; Pinekill, May.

L. gulosa Walck. Wilmington, Aug; Upper Jay, Sep, *Plm*; Gloversville, Sep, *Alex*; Rock City, Sep; Ithaca; McLean, May; Rensselaer, Mar, Je, Oct, *Schoon*; Silver Bay, Sep, *Leon*; Elizabeth I., Aug; **LI**.

L. helluo Walck. Upper Jay, Sep, *Plm*; Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Aug; Rochester, *Franck*; Tyrone, Sep; Oak Ridge, Canandaigua L., Aug; Glenwood, Aug, *Leon*; Taughannock Falls, Jl; Ithaca, Jan, Ap–Aug, Dec; McLean, Ap–May, Jl; W. Winfield, Je; Cranberry Cr., Aug; Kenwood, May; W. Albany, Je; Voorheesville, Ap, Je; Slingerlands, Jl; Dormansville, Je; Featherstone L., Schenectady Co, Jl; Meadowdale, Ap; Menands, Je, *Peck*; E. Berne, Je; Rensselaer, Jan, Ap–Jl, Sep–Oct, *Schoon*; Pike Pond, Rensselaer Co, May–Je; Tackawasick Pond, Je; Schodack, Ap; Riders Mills, May; Juanita I., Jl; Elizabeth I., Jl; Wappingers Falls, May; Saugerties, Aug; Cornwall, May, *Wlf*; Goshen, May; Paradise, May; Hancock, May; **SI:** Watchogue, Sep; **LI:** Montauk Pt., May.

L. mordax Walck. NY (Walckenaer, Marx).

L. nidifex Marx. Albany (Em); Sand Plains, near Albany, May; **SI:** Tottenville, Je; **LI:** Great Pond, Riverhead, May; Bridgehampton, Aug; Long Pond, Suffolk Co, Je.

L. pikei Marx. Rochester (McCook); Albany (Em); **SI:** Tottenville, Je–Jl; **LI:** Bayville, Aug–Sep, *Bks*; Shinnecock Hills (Marx); Bridgehampton, Aug; Montauk Pt., May; Baiting Hollow, May.

L. pratensis Em. Wilmington, Aug; Mt. Whiteface, Aug; Axton, *MacG*, *Houghton*; Plattsburg, Sep, *Plm*; Sacandaga Pk., Jl, *Alex*; Baldwinsville (Bks); Clyde, Ap; Rochester; Charlotte, Sep, *Plm*; Barcelona, Sep; Olcott, Ap; Ithaca, Mar–May; McLean, May; Caroline Depot, Ap; Valcour I., Aug; Juanita I., Jl; Pearl Pt., Jl; Bumps Pond, Jl; Albany, Ap, *Schoon*; Dormansville, Je; Medusa, Ap; Rensselaer, Ap, Oct, *Schoon*; E. Schodack, Sep, *Yg*; Wappingers Falls, May; Hudson, May; Alsen, May; Copake Falls, Ap, *Chap*; Stamford, May, *Chrisp*; Tuxedo, Oct, *Wlf*; **LI:** Baiting Hollow, Ap.

L. punctulata Htz. **LI**, Oct (Bks).

L. rabida Walck. Ithaca (Bks); **LI**, Sep (Bks).

PARDOSA C. Koch

P. atlantica Em. **LI:** Fire I. (Em).

P. banski Chamb. **LI:** Mill Neck, Je (Bks); Sheepshead Bay, Aug; Gardiners I.. May.

P. distincta Blackw. Mt. Whiteface, Aug; Wilmington, Aug; Mt. Marcy, Jl–Aug; L. Tear, Jl; N. Elba, Jl.

P. emertoni Chamb. Keeseville, Je; Wells, Jl, *Yg*; Speculator, Jl, *Yg*; Woodworth's L., Jl, *Alex*; Onondaga Co (Britcher); Ithaca, Aug–Sep; McLean, Ap; Deruyter L., Jl; Juanita I., Jl; Pearl Pt., Aug; Black Mt. Pt., Jl; Dormansville, Je.

P. lapidicina Em. Axton, *MacG*, *Houghton*; Onondaga Co (Britcher); Lake Bluff, Sep; Sodus Pt., Sep; East Bay, Sep; N. Fair Haven, Jl; Crocketts, Sep; Rochester, *Franck*; Bluff Pt., Sep; Egleston's Glen, Je; Rye Pt., Sep; Elmira, Jl; Oak Ridge, Canandaigua L., Aug; Montour Falls, Sep; Cayuta L., Jl; Enfield Glen, Oct; Ithaca, May–Jl, Aug, Oct; Caroline Center, May; Valcour I., Aug; Juanita I., Jl; Pearl Pt., Jl; Kenwood, May; Wells, Je, *Babiy*; Dormansville, Je; Rensselaer, May; Schodack, Je, *Wlf*; Pike Pond, Rensselaer Co, Je; Tackawasick Pond, Je; **LI:** Gardiners I., May.

P. mackenziana Key. Mt. Whiteface, Aug; Uphill Br., Opalescent R., Jl; Wilmington, Aug; Crystal L., Jl; Burden L., Aug, *Schoon*; Catskills, Aug, *Schoon*.

P. milvina Htz. Uphill Br., Opalescent R., Jl; Sacandaga Pk., Je, *Alex*; Gloversville, Aug, *Alex*; N. Rose, Je; Clyde, Aug; Lake Bluff, Sep; East Bay, Sep; Rochester, *Franck*; Irving, Sep, *Chad*; Naples, Aug; Tyrone, Sep; Ithaca, May–Je, Oct; Alsen, Sep; Vrooman's Nose, May; Schenectady, Jl; Ravena; Albany, Je; Slingerlands, Mar, *Wlf*; Rensselaer, May, Jl, *Schoon*; Mill Cr., May, *Plm*; Vail Gate, May; Ashokan, Je; Pine I., May; Dunwoodie, May; **SI**, Jl; **LI:** Sheepshead Bay, Jl.

P. modica Blackw. Baldwinsville (Em); Clyde, May; Ithaca (Bks); Little Utica, Je; Albany, Ap; New Salem, Ap. **LI:** Mill Neck (Bks).

P. modica var. **brunnea** Em. Waterford, Ap, *Chad*.

P. moesta Bks. Mt. Whiteface, Aug; L. Tear, Jl; Keene Val., Sep; Newcomb, Oct; Saratoga, Je; Rochester, *Franck*; Cinnamon L.; Ithaca, May; McLean, Je–Jl; Penn Yan; Wemple, May; Voorheesville, Je; Hoversville, Je; Featherstone L., Schenectady Co, Jl; Rensselaer, Ap–Je, *Schoon*; Tackawasick Pond, Je; Valley Falls, May, *Yg*; Wappingers Falls, Je; Stamford, Je, Aug, *Chrisp*; Mt. Utsayantha, May; Dunwoodie, May; **LI**.

P. muscicola Em. Mt. Whiteface, Aug (Em); Mt. Marcy, Jl; Mt. McIntyre, Jl.

P. saxatilis Htz. L. Tear, Jl; Newcomb, Jl; Wells, Jl, *Yg*; Gloversville, Aug–Sep, *Alex*; Onondaga Co (Britcher); Loucks Pond, Jl; L. Keuka; Cinnamon L., Je–Jl; Ithaca (Bks); Vrooman's Nose, May; Voorheesville, Je; Scotia, May–Je, *Yg*; Dormansville, Je; Myosotis L., Albany Co., Jl; Rensselaer, May–Jl, *Schoon*; E. Schodack, Je, *Chad*; Riders Mills, May; Black Mountain Pt., Jl; Wappingers Falls, May; Red Hook, Je; Goshen, May; Paradise, May; Dunwoodie, May; **LI** (Bks).

P. xerampelina Key. Wilmington, Aug; Avalanche L., Jl; Keene Val., Sep; Chapel Pond, Je; Paul Smiths, Jl, *Plm*; Raquette Falls, Aug; Cranberry Cr., Aug–Sep; Gloversville, Aug, *Alex*; Howard, Jl; Penn Yan, May; Egleston's Glen, Je; Elmira, Jl; Ithaca, May; McLean, May, Jl; Freeville, Ap, Aug; Deruyter L., Jl; Delhi, May; Albany, Je; Shakers, May; Voorheesville, May–Je; Thacher Pk., May; Dormansville, Je; Clarksville, May; Mud Hollow Pond, Je; Rensselaer, Mar–Jl, *Schoon*; Tackawasick Pond, Je; Pike Pond,

Rensselaer Co, Je; E. Schodack, Je, *Chad*; Queechy L., May, *Schoon*; Nassau, Je, *Schoon*; Riders Mills, May, *Chrisp*; Pearl Pt., Aug; Sleeping Beauty Mt., Jl; Cossayuna L., May, *Schoon*; Wappingers Falls, May; Maratanza L., May; Hunter, Je; Little Pond, Orange Co, May; Stamford, Je.

PIRATA Sundevall

P. arenicola Em. Cranberry Cr., Aug; Schenectady, Je.

P. aspirans Chamb. Ithaca (Bks); Voorheesville, Je.

P. humicola Mont. NY (Petrunk).

P. insularis Em. Long L. (Em); Axton, *MacG*, *Houghton*; Cranberry L. (Barrows); Paul Smiths, Jl, *Plm*; Saratoga, Je; Onondaga Co (Britcher); Sodus Bay, Sep; Lake Bluff, Sep; Lakeside Pk., Orleans Co, Jl; Hemlock L., Aug; Loucks Pond, Jl; Cayuta L., Jl; Cinnamon L., Jl; W. Danby, Jl; Spencer, Je, Aug; Ithaca, Je–Aug; Ringwood, Oct; Freeville, Ap, Aug; McLean, May; Venice Center, Je; Juanita L., Jl; Kenwood, Je; Dormansville, Je; E. Nassau, Je, *Wlf*; Pike Pond, Rensselaer Co, Jl; Tackawasick Pond, Je; **LI:** Riverhead, Aug.

P. marxi Stone. Saratoga, Je; Gloversville, Aug, *Alex*; Ithaca (Bks); Cinnamon L., Je–Jl; Central Nassau, Jl; **LI:** Flushing, Nov.

P. minutus Em. Mt. Whiteface, Aug; L. Tear, Jl; Cranberry Cr., Aug; Gloversville, Sep, *Alex*; Barneveld, Jl; Tyrone, Sep; Cinnamon L., Jl; Taughannock Falls, Jl; Ithaca, Aug; McLean, Je; Slaterville, May; Irving, Sep, *Chad*; Crystal L., Jl; Rensselaerville, Jl; Dormansville, Je; Rensselaer, Jl, *Schoon*; Central Nassau, Jl; Red Hook, Je; Pike Pond, Rensselaer Co, Je; Mt. Lebanon, May, *Chrisp*; Mt. Utsayantha, May, Chrisp.

P. montanus Em. Long L. (Chamb); Mt. Marcy, Sep; Gloversville, Sep, *Alex*; Lake Bluff, Sep; Interlaken, Jl; Connecticut Hill, Aug; Rye Pt., Sep; Watkins, May; Ithaca, May–Je; Labrador Pond, Je; Kenwood, May–Je; Thacher Pk., May–Je; Pearl Pt., Jl; Oakland Val., May; Paradise, May; Little Pond, Orange Co, May.

P. wacondana Scheffer. Upper Jay, Sep, *Plm*; Beaver R., Jl; Hemlock L., Aug; Cinnamon L., Jl; Spencer, Aug; Ithaca, Je; Kenwood, Je; Rensselaerville, Jl; Tackawasick Pond, Je; Riders Mills, May.

SCHIZOCOSA Chamberlin

S. bilineata Em. Stuyvesant Falls, Je; Rensselaer, May, *Schoon*; Schodack, Ap; Vrooman's Nose, May; **LI:** Sea Cliff (Bks); Harbor Hill, Jl (Bks); Long Pond, Suffolk Co, Je.

S. crassipalpis Em. North Cr., Je, *Plm*; Genoa, Je; Spencer, Je; McLean, Ap; Schenectady, Je.

S. crassipes Walck. North Cr., Je, *Plm*; Gloversville, Ap, *Alex*; Ithaca, Aug–Oct (Bks); McLean, Ap; Schenectady, Je; Albany, Je; Rensselaer, Je; **LI:** Cold Sp. Harb. (Em).

S. saltatrix Htz. Gloversville, Je, *Alex*; Penn Yan, May; Ithaca (Bks); McLean, May; Egleston's Glen, Je; Vrooman's Nose, May; Kenwood, May; Thacher Pk., Je; Voorheesville, Je; Meadowdale, Ap–May; Rensselaer, Ap, *Schoon*; Schodack, Ap; Alsen, May, *Chad*; Oakland Val., May; **LI:** Sheepshead Bay, Sep.

TRABAEA Simon

T. aurantiaca Em. Onondaga Co (Britcher); McLean, May–Jl; Schodack, Je; **LI:** Baiting Hollow, May; Long Pond, Suffolk Co, Je.

FAMILY OXYOPIDAE

OXYOPES Latreille

O. salticus Htz. **LI,** Je (Bks, Em).

O. scalaris Htz. **LI,** Oct (Bks).

FAMILY SALTICIDAE

ADMESTINA Peckham

A. tibialis C. Koch. Ithaca (Bks); Elizabeth I.; **LI** (Bks).

AGASSA Simon

A. cyanea Htz. Ithaca (Bks); **LI,** Oct (Bks).

BALLUS C. Koch

B. youngi Peckham. **LI,** Aug (Bks).

EVARCHA Simon

E. hoyi Peckham. Wilmington, Aug; Axton, *MacG*, *Houghton*; Cranberry L., (Barrows); Saranac L., Aug; Speculator, Jl, *Yg*; Wells, Jl, *Yg*; Sacandaga Pk., Je, *Alex*; Johnstown, Aug, *Alex*; Gloversville, Jl, *Alex*; Cranberry Cr., Sep; Barneveld, Jl, *Wolcott*; Onondaga Co (Britcher); Lake Bluff, Sep; Ithaca, Aug; Valcour I., Aug; Juanita I., Aug; Thacher Pk., Je; **LI.**

EVOPHRYS C. Koch

E. diminuta Bks. **LI:** Bayville, Je (Bks).

FUENTES Peckham

F. lineata C. Koch. Onondaga Co (Britcher); L. Charlotte, Je; **LI** (Bks).

HABROCESTUM Simon

H. parvulum Bks. L. Keuka, Sep; Ithaca (Bks, Peckham); Coy Glen, Ithaca (Bks).

H. pulex Htz. Gloversville, Aug, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Crocketts, Sep; Lake Bluff, Sep; Rochester, *Franck*; Olcott, Ap, Sep; Silver Cr., Sep; Spring Brook, Sep; Richburg, Sep; Clarksburg, Sep; L. Keuka, May–Je; Ithaca, Mar, May, Aug; Caroline Center, May; Valcour I., Aug; Juanita I., Jl–Aug; L. George, Aug; Dormansville, Je; Voorheesville, Je; Poughkeepsie, *vanIngen*; **LI,** Sep (Bks).

HYCTIA Simon

H. bina Htz. Long Branch (Britcher); Ithaca (Bks).

H. pikei Peckham. **SI,** Nov; **LI:** Sea Cliff, Jl (Bks); Bayville (Bks).

ICIUS Simon

I. formicarius Em. McLean, May; **LI:** Montauk Pt., May.

I. hartii Em. Johnstown, Jl, *Alex*; Sport I., Sacandaga R., Je, *Alex*; Ithaca (Bks); Columbia Co; **LI,** Aug (Bks).

I. similis Bks. Paul Smiths, Je, *Babiy*; McLean, May–Je.

MAEVIA C. Koch

M. vittata Htz. Onondaga Co (Britcher); Ithaca, May, Sep, Nov; **LI** (Bks).

MARPISSA C. Koch

M. undata DeGeer. Onondaga Co (Britcher); Clyde, Aug; Rochester, *Franck*; Glenwood, Aug, *Leon*; L. Keuka, Sep; Ithaca, Aug–Nov; **LI,** Jl (Bks).

METACYRBA Cambridge

M. taeniola Htz. NY (Peckham).

METAPHIDIPPUS Cambridge

M. capitatus Htz. Axton, *MacG*, *Houghton*; Wells, May, *Yg*; Cranberry L. (Barrows); Mountain L., Je, *Alex*; Woodworth's L., May, *Alex*; Sport I., Sacandaga R., Je, *Alex*; Gloversville, May, *Alex*; Johnstown, *Alex*; Onondaga Co (Britcher); Enfield Glen, Oct; Ithaca, May, Oct; Freeville, Ap; McLean, May; Schenectady, Jl; Albany, May–Je; Rensselaer, Sep, *Schoon*; Tackawasick Pond, Je; Central Nassau, Jl; Juanita I., Jl; Sam's Pt., May; Paradise, May; Oakland Val., May; **LI:** Sea Cliff, Jl (Bks); Sheepshead Bay, Jl.

M. flavipedes Peck. Wilmington, Aug; Uphill Br., Opalescent R., Jl; Mt. Whiteface, Aug; Ithaca (Bks); Wells, Je, *Babiy*; Valcour I., Aug; Juanita I., Jl; Tackawasick Pond, Je; Wappingers Falls, May; Paradise, May; Little Pond, Orange Co, May; Sam's Pt., May; Oakland Val., May.

M. flavus Peck. Ithaca (Bks).

MYRMARACHNE MacLeay

M. albocinctus C. Koch. NY (Peck, Marx, Bks); **LI** (Bks).

NEON Simon

N. nellii Peck. Wilmington, Aug; Wilmington Notch, Aug; Uphill Br., Opalescent R., Jl; Onondaga Co (Britcher); Lake Bluff, Sep; Olcott, Sep; Richburg, Sep; Letchworth Pk., Jl; Alabama, Je; Connecticut Hill, Oct; Ithaca, Mar, May–Aug; Freeville, Aug–Sep; Labrador Pond, Je; Trenton Falls, Je; Voorheesville, Aug; Karner, Mar; Schodack, Je; Rensselaer, Jl; Valcour I.,

Aug; Juanita I., Jl; Little Pond, Orange Co, May; Sam's Pt., May; Maratanza L., May; Slide Mt., Je; Stamford, May, *Chrisp*; Oakland Val., May; Sterlington, May; Dunwoodie, May; **LI:** Garden City, Je, *Wlf*; Riverhead, May; Baiting Hollow, Ap; Long Pond, Suffolk Co, Je; Montauk Pt., May.

PARAPHIDIPPUS Cambridge

P. marginatus Walck. Axton, *MacG*, *Houghton*; Wilmington Notch, Aug (Em); Wilmington, Aug; Saranac L., Aug; Cranberry L. (Barrows); Barcelona, Sep; Geneva, Nov, *Glasgow*; Ithaca, Oct–Nov, *Bks*; Valcour I., Aug; Juanita I., Jl; Poughkeepsie, *vanIngen*; Lagrangeville, May; Oakland Val., May; **LI:** Sea Cliff, Jl (Bks).

PECKHAMIA Simon

P. picata Htz. Onondaga Co (Britcher); Ithaca, Ap; Juanita I., Aug; **LI**, Sep (Bks).

P. scorpionea Htz. **LI:** Jl–Aug (Bks, Peck); Cold Sp. Harb. (Em).

PELLENES Simon

P. agilis Bks. Ithaca (Bks); **LI** (Em).

P. borealis Bks. Mountain L., Je, *Alex*; Lake Bluff, Sep; East Bay, Sep; Ithaca (Bks).

P. coronatus Htz. Axton, *MacG*, *Houghton*; Ithaca (Bks); **LI** (Bks, Em).

P. decorus Blackw. Saranac L., Aug; Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Ithaca, Aug–Sep (Bks); Albany (Peck); Clarksville (Em).

P. longimanus Em. **LI:** Sea Cliff (Bks).

P. peregrinus Peck. Onondaga Co (Britcher); Ithaca, May, Sep; **LI** (Bks).

P. roseus Htz. Taughannock Falls, May (Em).

P. viridipes Htz. Vrooman's Nose, May; Wappingers Falls, May.

PHIDIPPUS C. Koch

P. audax Htz. Sacandaga Pk., Je, *Alex*; Onondaga Co (Britcher); Clyde, Ap; Lake Bluff, Sep; Rochester, May, Nov; Crosby, May; Ithaca, Aug; Albany, Dec; Greenville, Ap; Poughkeepsie, *vanIngen*; Wappingers Falls, May; Middletown, May; NYC, Sep, *Hoffman*; **LI:** Sea Cliff, Je (Bks); Gardiners I., May.

P. brunneus Em. Scotia, Je, *Yg*; Sacandaga Pk., Je, *Alex*; Vrooman's Nose, May; Oakland Val., May.

P. cardinalis Htz. Ithaca (Bks); NY (Peck).

P. clarus Key. Wilmington, Aug (Em); Cranberry L. (Barrows); Rochester, *Franck*; Ithaca, Jl–Aug; Deruyter L., Je; Ravena; Scotia, Je, *Yg*; Schenectady, Jl, *Yg*; Black Mountain Pt., Pearl Pt., Aug; **SI**, Jl; **LI:** Bridgehampton, Aug.

P. insolens Htz. **LI** (Peck).

P. mccooki Peck. Wilmington, Aug; Rochester, *Franck*; Elizabeth I., Aug.

P. princeps Peck. Gloversville, Ap, *Alex*.

P. purpuratus Key. Mt. Whiteface, Aug (Em); Speculator, Jl, *Yg*; Gloversville, Mar, *Alex*; Woodworth's L., Je, *Alex*; Onondaga Co (Britcher); Bluff Pt., Sep; Ithaca, Ap, Sep, Nov; Guilderland, May; Greenville, Ap; Vrooman's Nose, May; Poughkeepsie, *vanIngen*; Wappingers Falls, May.

P. putnami Peck. Ithaca (Bks).

P. variegatus Lucas. **LI:** Valley Stream, May, *Fitch.*

P. whitmanni Peck. Onondaga Co (Britcher); Ithaca (Bks); **LI:** Sea Cliff, Jl (Bks).

POULTONELLA Peckham

P. alboimmaculata Peck. NY (Bks, Peck, Marx).

SALTICUS Latreille

S. albocinctus Peck. NY (Bks, Peck).

S. scenicus Cl. Cranberry Cr.; Sacandaga Pk., Je, *Alex*; Gloversville, May, *Alex*; Baldwinsville (Em); Clyde, Dec; Lake Bluff, Sep; Rochester, Nov; Wilson; Ithaca, Je, Aug, Nov; Dormansville, Je; Albany, Je; Rensselaer, May–Je, *Schoon*; Nassau, Je, *Schoon*; **LI:** Sea Cliff, Je (Bks); Sheepshead Bay, Jl.

SIDUSA Peckham

S. borealis Bks. Ithaca (Bks).

SITTICUS Simon

S. palustris Peck. Wilmington, Aug (Em); Saranac L., Aug (Em); Cranberry L. (Barrows); L. Tear, Jl; Sacandaga Pk., Je–Jl, *Alex*; Onondaga Co (Britcher); Enfield Glen, May; Ithaca, Aug (Bks); Venice Center, May; Freeville, Aug (Bks); Poughkeepsie, *vanIngen*; **LI:** Mill Neck, Oct (Bks).

S. striatus Em. Cranberry L. (Barrows); Little Pond, Orange Co, May.

SYNEMOSYNA Hentz

S. formica Htz. Wilmington, Aug (Em); Indian Reservation, Onondaga Co (Britcher); Howland I., Nov; Penn Yan, May, Aug; Ithaca, Je, Nov; Albany, Je, *Yg*; Rensselaer, May, *Schoon*; Elizabeth I., Aug; Sterlington, May; **LI:** Riverhead, Ap; Long Pond, Suffolk Co, Je.

TALAVERA Peckham

T. minuta Bks. **LI:** Sea Cliff, May (Bks).

TUTELINA Simon

T. elegans Htz. Adirondacks (Em); Onondaga Co (Britcher); Ithaca (Bks); Scotia, Je, *Yg*; Albany, Je–Jl; Lagrangeville, Jl; NYC (Bks); **LI,** Aug (Bks).

WALA Keyserling

W. mitrata Htz. Onondaga Co (Britcher); Ithaca, Sep–Oct (Bks); **LI,** Jl (Bks).

W. palmarum Htz. Onondaga Co (Britcher); W. Barre, Sep; Ithaca, Aug (Bks); **LI,** Jl (Bks).

ZYGOBALLUS Peckham

Z. bettini Peck. Onondaga Co (Britcher); Manlius; Ithaca, Je; Oakland Val., May; **LI**, Oct (Bks).

Z. nervosus Peck. Onondaga Co (Britcher); Ithaca (Bks); **LI** (Bks).

Z. sexpunctatus Htz. NY, Aug (Bks).

ORDER OPILIONES

Compiled by C. R. CROSBY, AUGUSTA WOLF, and S. C. BISHOP

SUBORDER PALPATORES

FAMILY NEMASTOMATIDAE Simon

CROSBYCUS Roewer

C. dasycnemus Cros. Egleston's Glen, Sep; Freeville, Oct; **LI**: Montauk Pt., Je.

FAMILY ISCHYROPSALIDAE Simon

SABACON Simon

S. cavicolens Pack. Ithaca, Aug.

FAMILY PHALANGIIDAE Simon

CADDO Banks

C. agilis Bks. Olcott, Sep, *Dt*; Woodwardia Swamp, Aug; Covert, Jl, *Bdy*; Delhi, May; **LI**: Jamaica, Je, *Wlf*; Great Pond, Riverhead, May; Montauk Pt., May.

C. boopis Cros. W. Barre, Sep; Ithaca, Aug; Ballston L., Aug, *Wlf*; Voorheesville, Aug.

MITOPUS Thorell

M. morio Fabr. Mt. Whiteface, Aug; Artist's Br., Je; Mt. Marcy, Jl, Sep; Uphill Br., Opalescent R., Jl; Mt. McIntyre, Jl; Avalanche L., Jl.

ODIELLUS Roewer

O. pictus Wood. Mt. Whiteface, Aug; Marble Mt., Aug; Mt. McIntyre, Je–Jl; Mt. Marcy, Sep; Wilmington, Aug; Wilmington Notch, Aug; Upper Jay, Sep; Saranac L., Sep, *Plm*; Plattsburg, Sep, *Plm*; Elizabethtown, Aug; Valcour I., Aug; Raquette L., Sep, *Plm*; L. Placid, Sep, *Plm*; Chapel Pond, Je–Jl; Watertown, Sep, *Plm*; Brownsville, Sep, *Plm*; Pinnacle Mt., Aug; Woodworth's L., Aug, *Alex*; Big Moose, Aug; Little Falls, Jl; Lake Bluff, Sep; Charlotte, Sep, *Plm*; Glen Haven, Sep, *Plm*; Lewiston, Sep, *Plm*; Silver Cr., Sep; Spring Brook, Sep; Barcelona, Sep; Olcott, Sep; Stow, Sep; Rock City, Aug–Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Painted Post, Sep; Hemlock L., Aug; Crosby, Sep–Oct; Watkins, Oct; Montour Falls, Sep; Covert, Aug; Interlaken, Nov; Taughannock Falls, Aug, Oct; Connecticut Hill, Aug; Enfield, Aug; McLean, Jl; Kenwood, Oct; Thompson L., Je; Voorheesville, Je–Jl; Pearl Pt., Jl; Rensselaer, Aug; Nassau L., Sep, *Wlf*.

PHALANGIUM Linnaeus

P. opilio L. Malone, Oct; Plattsburg, Sep; Norwood, Oct; Watertown, Sep, *Plm*; Evans Mills, Oct; Syracuse, Sep; Lake Bluff, Aug–Sep; East Bay, Sep; Rochester, Sep–Oct; Charlotte, Sep, *Plm*; Carlton, Jl; Newfane, Oct; Lockport, Aug; Lewiston, Sep, *Plm*; Hamburg, Sep; Silver Cr., Je, Sep, *Leon*; Spring Brook, Sep; W. Barre, Sep; Holley, Oct; Hornell, Sep; Honeoye Falls, Jl, Sep, Nov; Geneva, Nov; Stanley, Sep; Penn Yan, Je, Nov; Crosby, Sep; Cinnamon L., Jl; Ithaca, Sep–Nov; McLean, Sep; Canastota; Trenton Falls, Je; Watervliet, Aug; Albany, Aug; Normansville, Jl; Myosotis L., Albany Co, Jl; Rensselaer, Jl, Nov, *Schoon*; Dormansville, Je; Elizabeth I., Jl; Kinderhook, Sep; **LI:** Manhasset, Je; Jamaica, Sep.

OPILIO Herbst

O. parietinus DeG. Plattsburg, Sep, *Plm*; Wilmurt, Aug, *Plm*; Indian L., Aug, *Schoon*; Otto, Sep; Keuka L., Aug; Ithaca, Aug, Oct–Nov; **LI** (Bks).

LEIOBUNUM C. Koch

L. calcar Wood. Wilmington Notch, Jl–Aug; Chapel Pond, Jl; Big Moose, Aug, *Plm*; Woodworth's L., Je, *Alex*; Letchworth Pk., Jl; Factory Hollow, Ontario Co, Aug; Taughannock Falls, Jl–Aug; Cinnamon L., Jl; Enfield, Jl, *Wlf*; Ithaca, Je–Aug; Spencer, Aug; Woodwardia Swamp, Aug; McLean, Jl; Slaterville, Aug; Ringwood, Jl; Deruyter L., Jl; Trenton Falls, Je; Little Falls, Jl; Ballston L., Aug, *Wlf*; High Mills Gorge, Aug, *Wlf*; Lawson L., Je; Black Mt., Washington Co, Aug; Hague, Aug, *Leon*.

L. formosum Wood. **LI:** Sea Cliff (Bks).

L. longipes Weed. Plattsburg, Sep, *Plm*; Uphill Br., Opalescent R., Aug; Wilmington, Aug; L. Placid, Sep, *Plm*; Chapel Pond, Jl; Upper Jay, Sep, *Plm*; Saranac L., Sep, *Plm*; Woodworth's L., Aug; E. Onondaga, Sep; Cayuga, Aug; Barcelona, Sep; Silver Cr., Sep; Stow, Sep; Rock City, Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Montour Falls, Sep; Elmira, Aug; Enfield Center, May, *Rea*; Ithaca, Jan, Aug, Dec; Caroline, May; McLean, Ap–May; Ballston L., Aug, *Wlf*; High Mills Gorge, Aug, *Wlf*; Albany, Aug, *Leon*; Thacher Pk., May; Voorheesville, Je–Jl; Thompson L., Sep; Normansville, Jl; Kenwood, Jl–Aug; Delmar, Aug; Watervliet, Aug; Valcour I., Aug; Hague, Sep, *Leon;* Pearl Pt., Jl; Black Mt., Washington Co, Aug; Catskill, Jl, *Plm*; Rhinebeck, Jl; Highland, Aug, *Wlf*.

L. nigropalpi Wood. Wilmington, Aug; Hemlock L., Aug; Elmira, Jl; Taughannock Falls, Aug; Enfield, Jl, *Wlf*, *Taub*; Ithaca, Jl–Aug; Naples, Jl; L. Keuka, Sep; Ballston L., Aug, *Wlf*; Albany, Jl; Kenwood, Jl; Valcour I., Aug; **LI:** Jamaica, Je, *Wlf*.

L. politum Weed. Mt. Whiteface, Aug; Ausable Chasm, Sep, *Leon*; Wilmurt, Aug; Woodworth's L., Aug; Clyde, Jl; Penn Yan, Aug; Naples, Jl; Montour Falls, Sep; Taughannock Falls, Jl–Aug; Spencer, Aug; Ithaca, Jl–Sep; Woodwardia Swamp, Aug; High Mills Gorge, Aug, *Wlf*; Ballston L., Aug, *Wlf*; Albany, Jl; Voorheesville, Jl; Kenwood, Aug, *Plm*; Rensselaer, Jl; Nassau L., Sep, *Wlf*; Watervliet Reservoir, Aug, *Leon*; Valcour I., Aug; Hague, Aug, *Leon*; Pearl Pt., Jl; Black Mt., Washington Co., Aug; Rhinebeck, Jl; Hunter, Aug; Van Cort. Pk., Sep, *Plm*; **LI:** Forest Hills, Sep, *Plm*; Amityville, Aug, *Plm*; Riverhead, Sep.

L. serratipalpe Roewer. Long L., Cold R. (Roewer).

L. speciosum Bks. **LI:** Sound Avenue, Suffolk Co, Aug, *Lath*; Peconic, Sep, *Lath*; Orient, Sep, *Lath*.

L. ventricosum Wood. Adirondack Lodge, Je–Jl; Chapel Pond, Je–Jl; Indian L., Je; Upper Jay, Sep; Johnstown, Je; Old Forge, Jl; Clyde, Jl; Howland I., Nov; Otto, Jan, Aug, *Comstock*; Rock City, Je; Portage, Je; Letchworth Pk., Jl; Oak Orchard Swamp, Je; L. Keuka, Je; Cinnamon L., Je; Taughannock Falls, Jl–Aug, *Comstock*; Enfield, Jl, *Wlf*; Ithaca, May, Jl–Sep; McLean, Jl; Slaterville, Aug; W. Winfield, Je; Thacher Pk., May; Voorheesville, Je–Jl; Normansville, Nov; Kenwood, May, Jl, *Plm*; Karner, Mar, Aug; Rensselaer, May, *Plm*; E. Greenbush, Je; Central Nassau, Jl; Schodack Landing, Je; Red Hook, Je; Sleeping Beauty Mt., Jl; Queechy L., May, *Schoon*; Riders Mills, May, *Chrisp*; Hunter, Je, *Plm*; Hunter Mt., Je, *Plm*; Goshen, May; Big Indian, Je; Tompkins Corners, Jl, *Wlf*; Mosholu; **LI:** Cold Sp. Harb., Jl, *Plm*; Riverhead, Sep; Sanford Club, Je; Gardiners I., May.

L. verrucosum Wood. Rensselaer, Aug, *Schoon*; Orangeburg, Je, *Giles von Krockow*; **SI:** Watchogue, Jl, *Barnes*; **LI:** Ronkonkoma, Sep; Yaphank, Jl, *von Krockow*; Riverhead, Aug.

L. vittatum Say. Ausable Chasm, Sep, *Leon*; Wilmington, Aug; Upper Jay, Sep; Johnstown, Aug, *Alex*; Gloversville, Ap, *Alex*; Sacandaga Pk., Aug; Woodworth's L., Aug; Mountain L., Sep; Brownsville, Sep, *Plm*; E. Onondaga, Sep, *Plm*; Lake Bluff, Sep; Clyde, Jl–Aug; Charlotte, Sep, *Plm*; Glen Haven, Sep, *Plm*; L. Erie Beach, Chautauqua Co, Je; Silver Cr., Sep; Richburg, Sep; Wellsville, Sep; Hornell, Sep; Hemlock L., Aug; Naples, Jl–Aug; Montour Falls, Sep; Enfield, Jl, *Taub*; Ithaca, Jl, Aug–Sep; High Mills Gorge, Aug, *Wlf*; Ballston L., Aug, *Wlf*; Albany, Jl–Aug; Voorheesville, Jl, *Leon*; Normansville, Jl; Plattsburg, Sep; Valcour I., Aug; Pearl Pt., Jl; Shelving Rock Mt., Jl; Spruce Mt., Sep, *Leon*; Elizabeth I., Jl; Juanita I., Jl; Hague, Aug–Sep, *Leon*; Watervliet Reservoir, Aug, *Leon*; Nassau L., Sep, *Wlf*; Rensselaer, Aug, *Plm*; Kinderhook L., Aug, *Schoon*; Saugerties, Aug; Turner, Aug; Kingston, Sep; Highland, Aug, *Wlf*; Fishkill, Sep, *Plm*; Craryville, Aug, *Wlf*; Middletown, Aug; Hunter, Aug; Van Cort. Pk., Sep, *Plm*; **LI:** North Beach, Queens Co, Jl; Forest Hills, Sep, *Plm*; Amityville, Aug, *Plm*; Riverhead, Sep.

HADROBUNUS Banks

H. grandis Say. Otto, Aug; Taughannock Falls, Jl; Cinnamon L., Je; Covert, Aug; Enfield, Jl, *Taub*; Ithaca, May–Sep; Slaterville, Aug; Cranberry Cr., Aug; Voorheesville, Jl; Ancram, Je; L. Charlotte, Je; Saugerties, Aug; Poughkeepsie, *vanIngen*; **LI:** Long Pond, Suffolk Co., Je; Shinnecock Hills, Je.

ORDER ACARINA

FAMILY ERIOPHYIDAE [186]

Compiled by H. E. HODGKISS

The Eriophyidae, or gall mites, are widespread as regards distribution within New York. Although this has been recognized for some years and attempts have been made to classify the species, there is very little

[186] Of the eriophyid galls occurring within New York State, there are many the identity of whose causal agents has not been disclosed through the medium of published references to the species. Such galls have been found on the following genera of plants: Artemisia, Betula, Bromus, Celtis, Crataegus, Fagus, Nyssa, Sambucus, Sorbus, Verbena, Viburnum, and Vitis. It is not improbable that many of the mites, when identified, will prove to be of European origin, although in this mass of material there must be a wealth of undescribed forms.

information as to the mites which cause the various gall formations. There are also a number of free-living forms, which apparently do not make galls but are associated with the gall-forming individuals.

Chadwick's list (1908) is a very important contribution to the knowledge of the mite galls, but it is probable that many of these structures were described originally from material collected at different periods of development and are the work of the same species of mite.

Some species, as the mites attacking apple, pear, maple, elm, linden, beech, willow, and the wild and cultivated stone fruits, are found wherever these plants are growing. In most instances serious damage is caused by the deforming of the leaves, or by the dropping of leaves and deforming of fruits.

The apple and pear mites are a menace in orchards of these fruits. *Eriophyes phloeocoptes* is of only local importance, but wherever it occurs it deforms the fruit spurs. *Phyllocoptes cornutus* is responsible for "silver leaf" on peach, plum, and apricot. The species was very abundant during one season at Geneva, but no serious harm to trees or fruit was noted.

SUBFAMILY **ERIOPHYINAE**

ERIOPHYES Siebold

E. abnormis Garm. Geneva. On *Tilia americana.*

E. avellanae Nal. Nassau; Albany. On *Corylus americana.*

E. brevitarsus Fock. "NY" (?), reference in Chadwick (N. Y. State Mus., Bul. 12, p. 124, 1907). On *Alnus glutinosa.*

E. caulus Cook. Irving. On *Juglans nigra.*

E. confusus Hodg. Geneva. On *Acer saccharinum.*

E. elongatus Hodg. Geneva. On *Acer saccharum.*

E. fraxiniflora Felt. Albany; **LI:** Brooklyn. On *Fraxinus americana.*

E. fraxini Garm. Geneva; Poughkeepsie; NYC. On *Fraxinus americana.*

E. malifoliae Parr. Geneva. On *Pyrus malus.*

E. maculatus Hodg. Geneva. On *Acer saccharum.*

E. marginatus Conn. Albany. On *Salix alba.*

E. major Hodg. Geneva. On *Acer rubrum.*

E. modestus Hodg. Bug L., Adirondacks. On *Acer saccharum.*

E. negundi Hodg. Geneva. On *Acer negundo.*

E. ornatus Hodg. Geneva. On *Acer rubrum.*

E. padi var. Nal. Blackhead Mt., Catskills; Poughkeepsie. On *Prunus serotina.*

E. parallelus Hodg. Seventh L., Adirondacks. On *Acer spicatum.*

E. phloeocoptes Nal. Hudson Val. On *Prunus domestica.*

E. populi Nal. Lebanon Sps. On *Populus tremuloides.*

E. pruni Schoene. Geneva. On *Prunus americana.*

E. pruni-crumena Walsh. Geneva. On *Prunus americana.*

E. piri Pagnst. PEAR LEAF BLISTER MITE. Generally distributed through the State, and often injurious to apple and pear.
E. piri var. **variolata** Nal. Geneva. On *Pyrus malus.*
E. quadrisetus juniperinus Nal. Ithaca. On juniper berries.
E. quadrisetus typicus F. Thom. Ithaca. On juniper berries.
E. querci Gar. NY. On *Quercus macrocarpa.*
E. regulus Hodg. Geneva; Phelps. On *Acer saccharum.*
E. rhois Stebbins. "NY". On *Rhus toxicodendron.*
E. ryderi Bks. "NY". On *Acer saccharum.*
E. salicicola Gar. Irving. On *Salix amygdaloides.*
E. semen Walsh. "NY". On *Salix nigra.*
E. serotinae Beut. Blackhead Mt., Catskills; Poughkeepsie. On *Prunus serotina.*
E. thujae Gar. "NY" (Felt). On *Thuja occidentalis.*
E. ulmi Gar. Geneva; Catskill. On *Ulmus americana.*

SUBFAMILY PHYLLOCOPTINAE

ANTHOCOPTES Nalepa

A. transitionalis Hodg. Geneva. On *Acer rubrum.*

EPITRIMERUS Nalepa

E. piri Nal. Geneva. On *Pyrus communis.*

OXYPLEURITES Nalepa

O. dentatus Hodg. Geneva. On *Acer platanoides.*
O. dentilobus Hodg. Geneva. On *Acer saccharum.*
O. serratus Nal. Geneva. On *Acer platanoides.*

PHYLLOCOPTES Nalepa

P. aceris-crumena Rly. Phelps; Geneva; Seneca Castle. On *Acer saccharum* and *A. saccharinum.*
P. brevisetosus Hodg. Geneva. On *Acer negundo.*
P. constrictus Hodg. Geneva. On *Acer saccharum.*
P. cornutus Bks. Geneva. On *Prunus persica.*
P. gymnaspis Nal. Geneva. On *Acer platanoides.*
P. magnificus Hodg. Geneva. On *Acer platanoides.*
P. minutissimus Hodg. Geneva. On *Acer rubrum.*
P. quadripes Shim. "NY". On *Acer saccharinum.*
P. quinquilobus Hodg. Geneva. On *Acer rubrum.*
P. schlechtendali Nal. "NY". On *Pyrus malus* and *P. communis.*
P. splendidus Hodg. Geneva. On *Acer negundo.*
P. trilobis Hodg. Geneva. On *Acer platanoides.*
P. variabilis Hodg. Geneva. On *Acer saccharum.*

CLASS DIPLOPODA

Compiled by JOHN W. BAILEY

ORDER CHILOGNATHA

FAMILY ISOBATIDAE

BLANIULUS Gervais

B. guttatus (Bosc). NYC, Je, 1917.

NOPOIULUS Menge

N. minutus (Brandt). Freeville, Oct, Ithaca, Ap, *Bail*; West Farms, Sep; Bronx Pk., Sep (Plm).

FAMILY JULIDAE

BRACHYIULUS Berlese

B. pusillus (Leach) (*virgatus* [Wood]). Forbes Manor, Ap (Plm); Vischer Ferry, May.

DIPLOIULUS Berlese

D. londinensis coeruleocinctus (Wood) (*Julus hortensis* Wood). Lyons Falls, Jl; Linlithgo, Je, Oneida, Je, Brownville, Sep (Plm); Buffalo, Ap, *Warren*; Ellington, Oct; Jamestown, Ap, *Rumple*; Montour Falls, Oct, *Cy*; Stockton, May; Albany; Rensselaer; Ithaca, May, Jl, Nov, *Bail*; Danby, Oct, *Cy*; McLean, May, *Babiy*; Caroline, Ap, *Diven*; Freeville, Oct, Schenectady, Oct (Plm); Scarsdale, Oct, *Larth*; Delmar, Ap, *Yg*; Fishkill, Sep (Plm); **LI:** Valley Stream, Mar, *Weston*.

D. luscus (Mein.). West Farms, Sep.

OPHYIULUS Berlese

O. pilosus (Newport). Ithaca, Mar, *Bail*; Rensselaer, Fishkill, Van Cort. Pk., Washington Pk., Bronx Pk.; **SI:** Castleton; **LI:** Cold Sp. Harb., Mar–Sep; (all Plm).

FAMILY PARAJULIDAE

PARAJULUS Humbert and Saussure

P. canadensis (Newport). Upper Jay, L. George, Old Forge, Saranac L., Crown Pt., North Cr., Paul Smiths, Lewiston, Wilmurt, Copeland, E. Onondaga, Chautauqua L., Big Moose, Raquette L., Brownville, L. Placid, Plattsburg, Chateaugay L., Hunter Mt., Watertown, Glen Haven, Thompson L., Kenwood, Rensselaer, Pine Hills, May–Sep (all Plm); McLean, *Cy*, *Sib*; Ithaca, Freeville, Crown Hill, Oct, *Bail*.

P. immaculatus (Wood). Mt. Marble, Mt. Whiteface, Wilmington, Aug, *Bail*; Kenwood, Oct (Plm).

P. impressus (Say). Upper Jay, Crown Pt., Brownville, Plattsburg, Lewiston, E. Onondaga, Charlotte, Glen Haven, Schenectady, Kenwood, Albany, Poughkeepsie, Fishkill, Linlithgo, May–Oct (all Plm).

P. pennsylvanicus (Brandt). Ithaca, *Dt*; McLean, Queechy L., E. Onondaga, Glen Haven, Kenwood, Bronx Pk., Van Cort. Pk.; **SI:** Arrochar, Castleton, May–Oct; (all Plm).

FAMILY **SPIROBOLIDAE**

SPIROBOLUS Karsch

S. marginatus (Say). Chilson L., Sep; Indian Ladder, Je, Crown Pt., Sep, Plattsburg, Sep, Port Douglas, Aug (Plm); Gloversville, Ap, *Alex*; E. Onondaga, Sep (Plm); Ithaca, May, Jl, *Bail, Dt, Bizzell*; Cortland, Jl, McLean Bogs, Taughannock, Freeville (Dt); L. George, Aug; Peekskill, Fishkill, Je, Sep (Plm).

FAMILY **XYSTODESMIDAE**

FONTARIA Gray

F. corrugatus (Wood). Upper Jay, Sep, E. Onondaga, Sep, and Howe Cave, Je (Plm); Ithaca, May, Jl, *Dt*; McLean, May; Enfield Gorge, Slaterville, May (Bizzell); Coy Glen, Mar; Aqueduct, Je, Peekskill, Je (Plm).

F. trimaculata (Wood). North Cr., Lewiston, Indian Ladder, May–Sep (Plm); Coy Glen, Jl, *Dt*; Gloversville, May, Aug, *Alex*; Saratoga, Je, *Whitlock*.

FAMILY **STRONGYLOSOMIDAE**

ORTHOMORPHA Bollman

O. gracilis (Koch). Ithaca, May, Jl, *Schenih*; McLean Bogs, Aug, *Sib*; Albany, Mar, *Brown*.

FAMILY **POLYDESMIDAE**

POLYDESMUS Latreille

P. canadensis (Newport). Wilmington, Aug, *Bail*; Wilmurt, May (Plm).

P. granulatus Say. Bronx Pk., Sep (Plm).

P. moniliaris (Koch). West Farms, Ap, Oct, *Cy*.

P. serratus (Say). Big Moose, North Cr., Paul Smiths, Jl–Aug (Plm); Mt. Marion, Ulster Co, Oct, *Chadwick*; Wilmurt, E. Onondaga, Aug–Sep (Plm); Warner, Jl, *Wlf*; Gloversville, Sep, *Alex*; Chautauqua L., Sep (Plm); Connecticut Hill, Ithaca, Freeville, Oct, *Bail*; L. George, Hunter Mt., Catskill, Kenwood, Van Cort. Pk. (Plm); **LI:** Cold Sp. Harb., Amityville, Je–Sep (Plm).

P. testi (Bollman). Rouses Pt., Crown Pt., Plattsburg, Old Forge, North Cr., Forbes Manor, Lewiston, Charlotte, Rensselaer, Hunter, Van Cort. Pk. (Plm); **LI:** Amityville, Mar–Nov (Plm).

SCYTONOTUS Koch

S. nodulosus (Koch). E. Onondaga, Glen Haven, Cayuga (Plm); **LI:** Cold Sp. Harb., Jl–Oct (Plm).

S. granulatus (Say). Plattsburg, Kenwood, Aug, Sep (Plm).

FAMILY **CRASPEDOSOMIDAE**

TRICHOPETALUM Harger

T. album (Cook). Glen Haven, Sep (Plm).

T. sp. Hunter, Hunter Mt., Je (Plm).

CLEIDOGONA Cook and Collins

C. caesioannulata (Wood). Danby, Oct, *Cy&Chap.*

FAMILY **POLYZONIIDAE**

POLYZONIUM Brandt

P. rosalbum (Cope). Crown Pt., E. Onondaga, Sep (Plm); Danby, McLean, Ap, Oct, *Cy&Chap*; Connecticut Hill, Oct, *Bail.*

FAMILY **LYSIOPETALIDAE**

CALLIPUS Risso

C. lactarius (Say). Ithaca, May, Jl, *Bail*; Taughannock, Aug; Coy Glen, Jl, *Dt.*

FAMILY **POLYXENIDAE**

POLYXENUS Latreille

P. fasciculatus (Say). Ithaca, Mar–Ap, *Bail, Babiy*; Valley Cr. Swamp and Voorheesville, Aug, *Bish*; Greenville, Ap.

CLASS **CHILOPODA**

Compiled by JOHN W. BAILEY

ORDER **SCHIZOTARSIA**

FAMILY **SCUTIGERIDAE**

SCUTIGERA Lamarck

S. forceps Raf. THE HOUSE CENTIPEDE. Ithaca, May, *Bail*; Albany, Feb, Oct (NYS).

ORDER **ANAMORPHA**

SUBORDER **LITHOBIOMORPHA**

FAMILY **ETHOPOLIDAE**

BOTHROPOLYS Wood

B. multidentatus (Newport). Wilmington, Aug, *Bail*; Upper Jay; Old Forge; Crown Pt.; Indian Head; L. Placid; Raquette L.; Big Moose; Saranac L.; Forbes Manor; North Cr.; Hunter Mt.; Wilmurt; Thousand Isls.; E. Onondaga; Glen Haven; Chautauqua L.; Penn Yan; Ithaca; Caroline; Albany; Karner; Rensselaer; Kenwood; Linlithgo; Fishkill; **SI:** Castleton; **LI:** Cold Sp.

FAMILY **LITHOBIIDAE**

LITHOBIUS Leach

L. forficatus (L.). Rouses Pt.; Saranac L., Aug, *Bail*; Upper Jay; Charlotte; Plattsburg; Crown Pt.; Raquette L.; Lewiston; Forbes Manor; Fishkill; Marion; Old Forge; Gloversville; Syracuse; Niagara; Penn Yan; Hornell;

Howe Cave; Ithaca, May; Glen Haven; Caroline; L. George; Albany; Kenwood; Altamont; Rensselaer; Cedar Hill; Hunter; Pine Hill; Waterford; Bronx Pk.; Van Cort. Pk.; **SI:** Arrochar; Silver L.; **LI:** Bay Shore; Amityville; Oyster Bay; Cold Sp. Harb.

NADABIUS Chamberlin

N. aristeus (Chamb.). Montour Falls; Ithaca; Freeville, Oct, *Bail*; **LI:** Baiting Hollow.

NAMPABIUS Chamberlin

N. lundii Mein. Upper Jay; Wilmurt, Aug, *Plm*; Forbes Manor; Chautauqua L.; NYC (Lund).

N. fungiferopes (Chamb.). Very common throughout the State. Montour Falls, Oct, *Cy*; Ithaca, Dec, Chamb; McLean Bogs; Hunter Mt., Je, *Plm*.

SONIBIUS Chamberlin

S. parvus (Chamb.). Big Tupper L. (Thomas, FKBarbour).

S. numius (Chamb.). Forbes Manor, May, *Plm*.

SOZIBIUS Chamberlin

S. providens (Bollman). **SI:** Castleton, Sep, *Plm*.

PAITOBIUS Chamberlin

P. exiguus (Mein.). NYC, *Lund*.

FAMILY HENICOPIDAE

ZYGETHOBIUS Chamberlin

Z. sp. McLean Bogs, Ap, *Cy*.

ORDER EPIMORPHA

SUBORDER SCOLOPENDROMORPHA

FAMILY CRYPTOPIDAE

CRYPTOPS Leach

C. hyalinus (Say). Rensselaer, Sep, *Plm*; Bronx Pk.; **SI:** Castleton; **LI:** Cold Sp. Harb.

OTOCRYPTOPS Haase

O. sexspinosus (Say). Syracuse; E. Onondaga; Ithaca, May, *Bail*; Thompson L.; Caroline; Freeville; Glen Haven; Rensselaer; Hunter Mt.; Fishkill; Bronx Pk.; **SI:** Castleton; Arrochar; **LI:** Cold Sp. Harb.

SUBORDER GEOPHILOMORPHA

FAMILY GEOPHILIDAE

GEOPHILUS Leach

G. deducens (Chamb.). **LI:** Sea Cliff, *Bks.*

G. rubens (Say). Forbes Manor; Wilmurt; Gloversville; Caroline; Ithaca, May, *Bail*; Kenwood; Rensselaer; Altamont; Fishkill; Bronx Pk.; **LI:** Bay Shore.

G. mordax (Mein.). **LI,** *Chamb.*

ARENOPHILUS Chamberlin

A. bipuncticeps (Wood). NYC, Oct; **LI:** Oyster Bay, Ap, *Barlow*, May, *Plm.*

PACHYMERIUM Koch

P. ferrugineum (Koch). E. Greenbush, Je, *Plm.*

FAMILY LINOTAENIIDAE

LINOTAENIA Koch

L. fulva (Sager). Forbes Manor; Syracuse; Montour Falls; Ithaca, Jl, *Bail*; Freeville; McLean Bogs; Danby; Hunter Mt.; Kenwood; Rensselaer; Fishkill; Bronx Pk.; Van Cort. Pk.; **SI:** Silver L.

L. chionophila (Wood). Rouses Pt.; Saranac L.; Raquette L.; Grass L.; Connecticut Hill, Oct, *Bail*; McLean Bogs; Ithaca; Schenectady; Kenwood; Van Cort. Pk., Port Washington Pk., Bronx Pk.; **SI:** Arrochar.

FAMILY SCHENDYLIDAE

ESCARYUS Cook and Collins

E. liber (C.&C.). Kirkville, Ap, *C&C.*

E. urbicus (Mein.). Syracuse, Jan, *C&C*; Ithaca, Dec–Mar.

SCHENDYLA Bergsve and Meinert

S. nemorensis (Koch). Clyde, Dec; Hunter Mt.; Ithaca; Kenwood; **SI; LI:** Baiting Hollow.

CLASS MYRIENTOMATA

ORDER PROTURA

FAMILY EOSENTOMIDAE

EOSENTOMON Berlese

E. wheeleri Silvestri. Collected by Silvestri in NY, probably in the vicinity of NYC.

LIST OF ORDERS, AND NUMBER OF FAMILIES, GENERA, AND SPECIES RECORDED

Class	Order	Families	Genera	Species and varieties
Insecta	Thysanura	3	5	7
	Collembola	3	22	71
	Orthoptera	7	62	136
	Isoptera	1	1	1
	Neuroptera	11	25	61
	Ephemerida	1	24	61
	Odonata	3	49	159
	Plecoptera	4	19	59
	Corrodentia	9	18	36
	Mallophaga	4	17	53
	Thysanoptera	4	38	77
	Anoplura	2	8	11
	Hemiptera	32	264	727
	Homoptera	10	219	864
	Dermaptera	1	4	4
	Coleoptera	88	1,356	4,546
	Strepsiptera	1	1	2
	Mecoptera	1	4	20
	Trichoptera	13	68	174
	Lepidoptera	59	800	2,439
	Diptera	71	909	3,615
	Siphonaptera	1	11	26
	Hymenoptera	58	649	2,300
Arachnida	Araneae	19	176	553
	Opiliones	3	9	19
	Acarina (Eriophyidae)	1	5	52
Diplopoda	Chilognatha	11	16	27
Chilopoda	Schizotarsia	1	1	1
	Anamorpha	3	8	10
	Epimorpha	4	8	12
Myrientomata	Protura	1	1	1
	Grand total	430	4,797	16,124

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Memoir 100 *A Study of Pogoniris Varieties*, the next preceding number in this series of publications, was mailed on May 25, 1927.

INDEX

A
Abacidus, 223
Abbottana, 609
Abia, 876
Ablabesmyia, 709
Ablerus, 981
Abrenthia, 554
Abrostola, 626
Abstrulia, 408
Absyrtus, 946
Acacesia, 1052
Acallodes, 507
Acalypta, 100
Acalyptus, 502
Acamptus, 511
Acanalonia, 178
ACANALONIINAE, 178
Acanthocephala, 86
ACANTHOCERINAE, 422
Acanthocinus, 453
Acanthocnema, 842
Acantholoma, 75
Acantholyda, 872
Acanthomyops, 1000
Acanthoscelis, 506
ACANTHOSOMATINAE, 84
Acanthothrips, 72
ACARINA, 1076
Acasis, 592
Acemyia, 817
Acerota, 965
Achaetella, 842
Achalarus, 670
Achatodes, 639
ACHILINAE, 176
Acholerops, 276
Acholla, 106
Achorutes, 12
ACHORUTINAE, 12
Acidalia, 591
ACIDALIINAE, 591
Acidia, 851
ACIDOPROCTINAE, 65
Acidoproctus, 65
Acidota, 279
Acilius, 262
Aciura, 851
Aclista, 962
Acmaeodera, 355
Acmaeops, 438
Acnemia, 743
ACOENITINI, 939
Acoloithus, 537
Acolus, 964
Aconura, 167
Acoptus, 506
Acordulecera, 894
Acossus, 570
Acraspis, 970
Acratrichis, 313
ACRIDIDAE, 29
Acritus, 318
Acrobasis, 581
Acrocera, 761
Acrocercops, 541
ACROLOPHINAE, 537
Acrolophus, 537
Acrolyta, 929
Acroneuria, 58
Acronycta, 641
ACRONYCTINAE, 634
Acropteroxys, 383
Acroricnus, 930
Acrosternum, 83
Acrotona, 304
Actenodes, 361
Actia, 808
Actidium, 312
Actina, 751
Actinotia, 641
Actiopsis, 808
Actium, 308
Actobius, 290
Acucephalus, 163
Acupalpus, 250
Acutalis, 149
Acylomus, 392
Acylophorus, 294
Adaina, 585
Adalia, 397
Adela, 534
Adelges, 192
ADELGINAE, 192
Adelius, 904
Adelocephala, 586
Adelocera, 342
Adelphocoris, 131
Adelphomyia, 697
Aderocharis, 286
Adiplosis, 739
Adirus, 873
Adistemia, 389
Adita, 660
Admestina, 1070
Admontiopsis, 808
Adoneta, 536
Adoxophyes, 566
Adoxus, 468
Adranes, 312
Aedes, 704
Ægeria, 557
ÆGERIIDAE, 555
Aegialia, 418
Aegomorphus, 451
Aellopos, 611
Aenoplex, 929
AEOLOTHRIPIDAE, 66
AEOLOTHRIPOIDEA, 66
Aeolothrips, 66
Aeolus, 343
AESALINAE, 432
Aeschna, 51
AESCHNIDAE, 49
Æthaloptera, 603
Aethus, 77
Agabetes, 259
Agabus, 258
Agallia, 156
Agapetus, 523
Agaporus, 258
Agapostemon, 1025
AGARISTIDAE, 665
Agarodes, 531
Agassa, 1070
AGATHIDINAE, 910
Agathidium, 274
Agathis, 910
Agathomyia, 790
Agelastica, 475
Agelena, 1063
AGELENIDAE, 1063
Ageniella, 988
Agenioideus, 985
Aglais, 685
Aglossa, 578
Aglyptinus, 274
Agnomonia, 628
Agonoderus, 251
Agonopteryx, 545
Agonosoma, 771
Agraphus, 492
Agraylea, 523
Agrilaxia, 359
Agrilus, 361
Agriogenia, 988
AGRIONIDAE, 45
Agriopodes, 644
Agriotes, 348
Agroeca, 1061
Agromyza, 865, 866
AGROMYZIDAE, 865
Agroperina, 646
AGROTINAE, 659
Agrotis, 661
Agrypnia, 528
Agrypon, 953
Airora, 374
Alabama, 624
Alaus, 342
Alcathoe, 557
Alcidamea, 1028
Alebra, 173
Aleiodes, 901
ALEIODINAE, 901
Aleochara, 306
ALEOCHARINAE, 298
Aleodorus, 306
Alepidia, 122
Alepomyia, 531
Aleurochiton, 193
Alexeter, 946
Aleyrodes, 193
ALEYRODIDAE, 193
Allactina, 751
Allandrus, 486
ALLANTINAE, 878
Allantus, 880, 884
ALLECULIDAE, 398
ALLECULINAE, 398
Allochrysa, 40
Allocosa, 1066
Allocyphonyx, 985
Allodia, 744
Alloeostylus, 830
Allognosta, 751

Allograpta, 796
Allomimus, 511
Alloperla, 57
Allophyla, 843
Allopoda, 411
Allotria, 629
Alloxacis, **332**
Alloxysta, 968
Alobates, 405
Alobus, 423
Aloconota, 303
Alopecosa, 1066
Alophora, 806
Alphitobius, 404
Alphitophagus, 403
Alsophila, 590
Alveotingis, 103
Alypia, 665
ALYSIINAE, 919
Alyson, 1014
Amalopota, 179
Amalus, 509
Amara, 227
Amartus, 375
Amathes, **649**
Amaurobius, 1034
Amauronematus, 892
AMBLYCERA, 63
Amblycorypha, 21
Amblyctis, 410
Amblyderus, 340
Amblyscirtes, 675
Amblyteles, 921
AMBLYTELINI, 921
Ambrosiodmus, 520
Ameletus, 42
Amerinus, 250
Amerizus, 218
Ametastegia, 879
Amiota, 862
Amischa, 303
Ammalo, 668
Ammatomus, 1015
Ammobia, 1011
Ammodonus, 401
Ammophila, 1012
Amnestus, 77
Amobia, 823
AMOBIINAE, 823
Amoebaleria, 843
Amolita, 635
Amorbia, 566
Ampeloglypter, 504
Ampelophaga, 612
Amphasia, 248
Amphiagrion, 48
Amphibitherion, 303
Amphibolips, 972
Amphicerus, 415
Amphicnephes, 849
Amphicoma, 422
Amphicrossus, 378
Amphidasys, 603
Amphigerontia, 60
Amphion, 613
Amphionycha, 457
Amphipyra, 648
Amphorophora, 188
Amphotis, 378
AMPULICIDAE, 1008
Amydria, 539
Anabolia, 529
Anabrolepis, 979
Anacaena, 267
Anacampsis, 548
Anacamptodes, 603
Anacharis, 967
ANACHARITINAE, 967
Anacrabro, 1021
Anadaptus, 248
Anaedus, 406
Anaferonia, 222
Anagoga, 604
Anagrus, 984
Analcis, 510
Anametis, 491
ANAMORPHA, 1081
Anamorphus, 391
Anaphothrips, 68
Anaplodes, 590
Anarsia, 548
Anarta, 658
Anasa, 87
Anaspis, 335
Anastatus, 980
Anastoechus, 763
Anatella, 744
Anatis, 397
Anatrichis, 243
Anaulascaspis, 306
Anax, 51
Anaxipha, 28
Anchicera, 386
Anchocelis, 649
Anchodemus, 498
Anchylopera, 559
Anchytarsus, 368
Ancistrocerus, 1004
Ancylis, 559
ANCYLOLOMIINAE, 578
Ancylorrhanis, 1038
Ancyloxipha, 672
Ancyronyx, 367
Ancyrophorus, 280
Andrena, 1022
ANDRENIDAE, 1022
ANDRENINAE, 1022
Andricus, 971
Andrimus, 400
Andrina, 816
Androchirus, 400
Andronicus, 1028
Andropolia, 641
Ancephysis, 948
Aneflomorpha, 436
Anephischetos, 619
ANERASTIINAE, 584
Aneurhynchus, 963
Aneurus, 91
Angitia, 957
Ania, 606
Anisandrus, 520
Anisodactylus, 247
Anisolabis, 202
ANISOPODIDAE, 688
ANISOPODINAE, 688
ANISOPTERA, 49
Anisopus, 688
Anisosticta, 395
Anisostoma, 273
Anisota, 586
Anisotarsus, 248
ANISOTOMINAE, 273
Anisoxya, 411
ANOBIIDAE, 412
ANOBIINAE, 412
Anocomis, 444
Anoecia, 184
Anomala, **426**
Anomalagrion, 49
ANOMALINI, 953
Anomalon, 953, 954
Anomis, 624
Anomoglossus, 243
Anopheles, 703
Anoplitis, 482
Anoplium, 436
Anoplius, 987
Anoplolyda, 873
ANOPLURA, 73
Anorostoma, 843
Anorthodes, 640
Anorthosia, 549
Anosia, 681
Anotia, 179
Anteris, 964
Anthalia, 785
Anthaxia, 359
Anthemoessa, 1027
Anthemois, 1029
Antherophagus, 385
ANTHICIDAE, 340
Anthicus, 340
Anthobium, 278
ANTHOBOSCIDAE, 992
Anthoboscus, 447
Anthocharis, 677
Anthocomus, 326
Anthocoptes, 1078
ANTHOCORIDAE, 109
ANTHOCORINAE, 109
Anthocoris, 109
Anthomyia, 836
Anthomyiella, 836
ANTHOMYIIDAE, 829
ANTHOMYIINAE, 836
Anthomyza, 864
Anthonomus, 500
Anthophilax, 439
Anthophora, 1027
ANTHOPHORINAE, 1027
Anthracophaga, 860
Anthrax, 761, 762
Anthrenus, 372
Anthribulus, 487
Anthribus, 486
Antiblemma, 625
Anticarsia, 625
Antichaeta, 846
Antillocoris, 97
Antipus, 462
Antispila, 544
Antocha, 691
Anuraphis, 186
Anurida, 13
Anurophorus, 13
Anyphaena, 1061
Anytus, 660
Aonidia, 201
Apaecasia, 601
Apamea, 639
Apanteles, 906
Apantesis, 666
Aparamesius, 963
Apatania, 530
Apatela, 641
Apatelodes, 587
Apateticus, 85
Apatura, 687
Apechthis, 937
Apenes, 240
Aperileptus, 959

Aphaenogaster, 997
Aphaereta, 919
Aphalara, 182
Aphanisus, 887
Aphanus, 98
Apharetra, 660
APHELINIDAE, 981
Aphelinus, 982
Aphelonema, 178
Aphelosetia, 544
Aphidencyrtus, 979
APHIDIINAE, 918
Aphidius, 918
Aphidoletes, 732
APHIIDAE, 184
APHIINAE, 184
APHIINI, 186
Aphilanthops, 1017
Aphiochaeta, 789
Aphis, 186
APHODIINAE, 419
Aphodius, 419
Aphonus, 428
Aphorista, 391
Aphrastus, 493
Aphria, 812
Aphrophora, 145
APHROPHORINAE, 145
Aphycus, 979
Apicia, 608
APIDAE, 1033
Apinops, 810
APIOMERINAE, 105
Apiomerus, 105
Apion, 489
APIONINAE, 489
Apis, 1033
Aplectoides, 660
Aplodes, 590
Apocellus, 280
Apocephalus, 789
Aporinellus, 985
Apostenus, 1061
Appias, 677
Apristus, 238
Apterolophus, 982
Apteromechus, 510
Aptesis, 928
Aptinothrips, 68
ARACHNIDA, 1034
Arachnophroctonus, 985
ARADIDAE, 89
Aradus, 89
Araeocerus, 487
Araeoncus, 1042
Aramigus, 492
ARANEAE, 1034
ARANEAE THERAPHOSAE, 1034
ARANEAE VERAE, 1034
Araneus, 1052
Archanara, 635
Archasia, 152
Archimerus, 87
Archips, 568
Archytas, 820
Arctia, 666
ARCTIIDAE, 665
Arctocorixa, 141
Arctoecia, 528
Arctophyto, 823
Arctopsyche, 524
Arctosa, 1066
Ardistomis, 213
Arenetra, 932
Arenophilus, 1083
Arge, 876
Argia, 47
ARGIDAE, 876
Argillophora, 634
ARGINAE, 876
Argiope, 1054
ARGIOPIDAE, 1052
Argynnis, 683
Argyra, 774
Argyresthia, 553
Argyria, 579
Argyrodes, 1038
Argyrostrotis, 628
Argyrotoxa, 566
Arhopalus, 446
Ariadna, 1036
Arilus, 106
Arisota, 304
Aristotelia, 550
Arogalea, 549
Arotes, 939
Arpactus, 1015
Arpedium, 279
Arphia, 31
Arsilonche, 641
Arta, 571
Artace, 588
Arthroceras, 750
ARTHROCERATINAE, 750
Arthrocnodax, 735
Arthromacra, 407
Arthropeas, 750
Arzama, 635
Asagena, 1039
Asaphes, 980
ASCALAPHIDAE, 42
Asclera, 332
Ascogaster, 903
Asemum, 434
ASILIDAE, 765
ASILINAE, 769
Asilus, 770
Asindulum, 741
ASOPINAE, 84
Asphondylia, 729
ASPHONDYLIARIAE, 729
Asphragis, 934
ASPICERINAE, 968
Aspidiotiphagus, 982
Aspidiotus, 200
Aspilota, 852
Astata, 1008
ASTATINI, 1008
Asteia, 864
ASTEIIDAE, 864
Astenophylax, 528
Astenus, 288
Asterolecanium, 194
Asteromyia, 725
Asthenidea, 109
Astiphromma, 959
Astomaspis, 929
Astylidius, 452
Astylopsis, 451
Asynapta, 717
Asyndetus, 772
Ataenius, 420
Atalopedes, 673
Atanycolus, 896
Atarba, 697
Ateloglossa, 822
Atethmia, 636, 649
Atherix, 760
Atheta, 301
Athous, 344
Athyroglossa, 856
Atimia, 448
Atlanticus, 24
Atlides, 678
Atmetus, 950
Atomacera, 876
Atomaria, 386
ATOMARIINAE, 386
Atomosia, 767
Atoperla, 58
Atoreutes, 900
Atractodes, 928
Atractotomus, 113
Atranus, 235
Atreides, 610
Atrichomelina, 845
Atropates, 979
Atrytone, 674
Atrytonopsis, 675
Attagenus, 371
Attalus, 326
ATTELABINAE, 489
Attelabus, 489
Atteva, 553
Atymna, 153
ATYPIDAE, 1034
Atypus, 1034
Aulacaspis, 199
AULACIDAE, 960
Aulacidea, 973
Aulacigaster, 863
Aulacizes, 160
Aulacodes, 896
Auletes, 488
Auleutes, 507
Aulobaris, 504
Aulonium, 388
Aulonothroscus, 354
Autographa, 626
Automeris, 586
Autoserica, 423
Axinopalpus, 239
Axion, 398
Axymyia, 688
AXYMYINAE, 688
Aylax, 973
Azelia, 833
Azelina, 608

B

Babia, 462
Bacanius, 318
Baccha, 794
Bactridium, 380
Badister, 229
Baeocera, 314
BAETINAE, 42
Baetis, 43
Baetisca, 42
Baeus, 964
Bagisara, 636
Bagous, 498
Baileya, 632
Balaninus, 500
Balclutha, 172
Baliosus, 483
Baliothrips, 69
Ballus, 1070
Balsa, 640
Banasa, 83
BANCHINI, 959
Banchus, 959

Bapta, 598
Baptolinus, 289
Barathra, 658
Barce, 104
Baris, 503
Barynotus, 492
Baryodma, 306
Barypeithes, 492
Barytychius, 497
Basiaeschna, 51
Basilarchia, 686
Basilona, 586
Bassareus, 466
BASSINI, 949
Bassus, 911, 949
Batazonus, 985
Bathona, 276
Bathyphantes, 1042
Bathyplectes, 957
Batrachedra, 552
Batrisodes, 309
Batyleoma, 449
Bedellia, 540
BELIDAE, 487
Bellamira, 442
Bellura, 635
Belonochilus, 93
Belonuchus, 292
Belostoma, 140
BELOSTOMATIDAE, 140
Belvosia, 812
Belyta, 962
BELYTINAE, 962
Bembecia, 557
BEMBECINAE, 1014
Bembex, 1018
BEMBICINI, 1018
Bembidion, 214
Benacus, 140
Beraea, 526
BERAEINAE, 526
Berkshiria, 753
Berosus, 265
BEROTHIDAE, 40
BERYTIDAE, 91
Betarmon, 349
BETHYLIDAE, 1004
Bezzia, 708
Bibio, 748
BIBIONIDAE, 748
Bibloplectus, 308
Bibloporus, 308
Bicyrtes, 1018
Bidessus, 255
Bigotomyia, 829
Biorhiza, 970
Bitoma, 387
Bittacomorpha, 688
Bittacomorphella, 688
BITTACOMORPHINAE, 688
Bittacus, 522
Bivena, 882
BLACINAE, 912
Blacus, 912
Blaniulus, 1079
Blaps, 401
Blapstinus, 401
BLAPTINAE, 401
BLASTOBASIDAE, 551
Blastobasis, 551
Blastodacna, 552
Blasturus, 44
Blatta, 19
Blattella, 18
BLATTIDAE, 18
Blechrus, 238
Bledius, 281
Blennocampa, 887
BLENNOCAMPINAE, 886
Blepharida, 475
Blepharigena, 811
Blepharipeza, 816
Blepharocera, 749
BLEPHAROCERIDAE, 749
Blepharomastix, 573
Blepharoprocta, 786
Bleptina, 621
Blera, 801
Blethisa, 210
BLISSINAE, 94
Blissus, 94
Bocchus, 1008
Boeotarcha, 576
Bogeria, 805
Bolbocerosoma, 421
Bolbomyia, 760
Boletina, 743
Bolitobius, 297
Bolitochara, 300
BOLITOPHAGINAE, 402
Bolitophagus, 402
Bolitophila, 740
BOLITOPHILINAE, 740
Bolitotherus, 402
Bolothrips, 71
Bombias, 1033
BOMBIDAE, 1030
Bombus, 1030
BOMBYLIIDAE, 761
Bombyliopsis, 821
Bombylius, 763
Bomolocha, 619
Bondia, 570
Bonnetia, 813
BORBORIDAE, 844
Borboropora, 305
Borborus, 845
Boreaphilus, 279
Boreus, 522
Boriomyia, 40
Borkhausenia, 546
Borolia, 654
Boros, 406
BOSTRICHIDAE, 415
BOSTRICHIDAE, 415
Botanobia, 861
Bothrideres, 388
Bothriopterus, 225
Bothriothorax, 979
Bothropolys, 1081
Bothrotes, 400
Bourletiella, 16
Boyeria, 51
Brachinus, 241
Brachistes, 912
Brachixiphosoma, 957
Brachyacantha, 393
Brachybamus, 497
BRACHYCENTRINAE, 530
Brachycentropus, 530
Brachycis, 417
Brachycoma, 824
Brachycosmia, 649
Brachydeutera, 859
Brachygluta, 309
Brachyiulus, 1079
Brachyleptura, 439
Brachylobus, 243
Brachymeria, 976
Brachymyrmex, 999
Brachynemurus, 41
Brachyneura, 716
Brachyopa, 797
Brachypalpus, 801
Brachypeza, 744
Brachypterolus, 374
Brachypterus, 375
Brachyrhinus, 492
Brachys, 364
Brachysius, 13
Brachystegus, 1016
Brachystropha, 920
Brachystylus, 493
Brachytarsus, 487
Bracon, 897, 910
BRACONIDAE, 895
BRACONINAE, 896, 910
Bradytus, 226
BRATHINIDAE, 270
Brathinus, 270
Bremia, 732
Brenthis, 683
BRENTIDAE, 485
BREPHINAE, 589
Brephos, 589
Brevicoryne, 187
Brillia, 711
Brochymena, 78
Brontes, 382
Brotolomia, 645
BRUCHIDAE, 484
Bruchomorpha, 178
Bruchophagus, 976
Bruchus, 484
Bruesia, 993
BRYOCORINAE, 115
Bryoporus, 298
Bucculatriplex, 901
Bucculatrix, 540
Buenoa, 139
Buplex, 754
BUPRESTIDAE, 355
Buprestis, 357
BYRRHIDAE, 372
BYRRHINAE, 372
Byrrhus, 373
Bythinopsis, 311
BYTHOSCOPINAE, 156
BYTURINAE, 370
Byturus, 370

C

Cabera, 599
Caberodes, 608
Cacoecia, 568
Cacoplia, 450
Caddo, 1074
CAECILIIDAE, 61
CAECILIINAE, 61
Caecilius, 61
Caenia, 859
Caeniella, 319
Caenis, 43
Caenocara, 414
Caenophanes, 899
Caenoscelis, 386
Caenurgia, 629
Caerosternus, 318
Cafius, 292
Cainosterum, 273
Calamia, 635
CALAMOCERATIDAE, 526

Calandra, 514
Calaphis, 185
Calathus, 230
Calendra, 514
CALENDRINAE, 512
Calephelis, 681
Caliope, 848
Caliroa, 885
Calitys, 374
Callaspidia, 968
Calledapteryx, 585
Calleida, 239
Callibaetis, 43
Callicera, 793
Calliceras, 964
CALLICERATIDAE, 964
Callicerus, 307
Callicorixa, 141
Callidiotes, 944
Callidium, 444
Callidrvas, 677
Calliephialtes, 941
Calligrapha, 470
Callilepis, 1036
Callimome, 975
CALLIMOMIDAE, 975
Callimoxys, 443
Callimyia, 790
Calliopsis, 1024
Calliphora, 827
CALLIPHORIDAE, 827
CALLIPHORINAE, 827
CALLIPTERINI, 184
Callipus, 1081
Callirhytis, 971
Callizzia, 585
Calloides, 446
Callopistria, 645
Callopistromyia, 850
Callosamia, 587
Calobata, 854
Calocalpe, 593
Calocampa, 651
Calochromus, 320
Calocoris, 131
Calophya, 183
Calopsectra, 712
Calopteron, 319
Calopteryx, 45
Calosoma, 209
Calotarsa, 790
Calothysanis, 592
Calpe, 624
Calpodes, 675
Calyptocephalus, 320
Calythea, 836
Camnula, 31
Campaea, 605
Campodea, 11
CAMPODEIDAE, 11
Camponotus, 1003
Campoplegidea, 954
CAMPOPLEGINI, 954
Campoplex, 965
Campsicnemus, 773
Campsomeris, 995
Camptobrochis, 116
Camptogramma, 596
Camptomyia, 718
Camptoneura, 849
Camptoneuromvia, 726
Camptoprosopella, 848
Campylenchia, 155
Campylomma, 110
Campylomyza, 715
CAMPYLOMYZARIAE, 715
Campyloneurus, 896
Canarsia, 583
Canifa, 411
CANTHARIDAE, 322
Cantharis, 324
Canthon, 417
Canthydrus, 254
Capis, 619
Capitophorus, 189
Capnella, 59
Capnia, 59
CAPNIIDAE, 59
Capnochroa, 399
CAPSINAE, 125
Capsus, 126
CARABIDAE, 207
CARABINAE, 207
Carabus, 208
Caradrina, 640, 649
Caraphractus, 984
Carborius, 529
Carcinops, 317
Cardiochiles, 913
CARDIOCHILINAE, 913
Cardiocladius, 710
Cardiola, 305
CARDIOPHORINAE, 352
Cardiophorus, 352
Caripeta, 601
Carneades, 662
Carphoborus, 515
Carphonotus, 511
Carpocapsa, 558
CARPOPHILINAE, 375
Carpophilus, 376
Carposina, 570
CARPOSINIDAE, 570
Carterocephalus, 672
Carthasis, 108
Cartodere, 389
Cartosyrphus, 793
Carynota, 149
Caryomyia, 734
Caseola, 1043
Casinaria, 955
Casnonia, 235
Cassida, 483
CASSIDINAE, 483
Castaneira, 1061
Catabena, 641
Cateretes, 375
CATERETINAE, 374
Catharellus, 250
Cathartus, 381
Catia, 673
Catocala, 630
CATOCALINAE, 628
Catogenus, 381
CATOGLYPTINA, 945
CATOGLYPTINI, 944
Catonia, 177
Catopyrrha, 601
Catorama, 414
Cavariella, 187
Cecidomyia, 739
CECIDOMYIIDAE, 714
Cedius, 311
Cedusa, 179
Celama, 669
Celatoria, 808
Celerio, 613
Celetes, 319
Celia, 227
Celina, 255
Celiptera, 629
Celithemis, 56
Cenchrea, 179
Centeterus, 927
Centrinites, 505
Centrinopus, 505
Centrinus, 504
Centrodera, 437
Centrodora, 982
CENTROTINAE, 156
Cepha, 873
Cephaleia, 872
CEPHALOIDAE, 331
Cephaloon, 331
Cephennium, 276
Cephenomyia, 805
CEPHIDAE, 873
Cephus, 873
Ceracis, 417
Ceradonta, 867
Ceraleptus, 88
CERAMBYCIDAE, 432
Ceramica, 655
Cerastipsocus, 60
Cerataphis, 192
Ceraterocercus, 890
Ceraticelus, 1043
Ceratina, 1028
Ceratinella, 1045
CERATININAE, 1028
Ceratinopsis, 1045
Ceratocapsus, 121
Ceratocolus, 1020
Ceratocombus, 135
Ceratogastra, 959
Ceratographis, 453
Ceratomegilla, 395
Ceratomia, 610
Ceratomyza, 867
Ceratophyllus, 869
Ceratopogon, 707
CERATOPOGONINAE, 707
Ceraturgus, 766
CERCERINI, 1017
Cerceris, 1017
Cercometes, 375
Cercopeus, 493
CERCOPIDAE, 145
CERCOPINAE, 145
Cercyon, 269
Cercyonis, 682
Ceresa, 147
Ceriodes, 802, 803
Cerma, 644
Cerococcus, 194
Cerodontha, 867
Ceromasia, 816
Ceropales, 989
CEROPALINAE, 989
Ceroplastes, 196
CEROPLATINAE, 741
Ceroplatus, 741
Ceroptres, 974
Cerostoma, 553
Cerotainia, 767
Cerotoma, 475
Ceruchus, 432
Cerura, 617
Cerylon, 388
Cesonia, 1036
CETONIINAE, 428
Ceuthophilus, 25

Ceutorhynchus, 507
Chabuata, 656
Chaeretymma, 931
Chaetarthria, 269
Chaetechus, 493
Chaetocnema, 479
Chaetogaedia, 819
Chaetona, 823
Chaetoneurophora, 788
Chaetophleps, 808
Chaetophlepsis, 810
Chaetopsis, 850
Chaetoravinia, 825
Chaetotachina, 818
Chaitophorus, 186
Chalarus, 791
CHALASTOGASTRA, 871
CHALCIDIDAE, 976
CHALCIDOIDEA, 975
Chalcodermus, 510
Chalcoides, 478
Chalcomyia, 793
Chalcophora, 355
Chalcophorella, 355
Chalepus, 482
Chalybion, 1012
Chamaemyia, 865
Chamyris, 634
CHAOBORINAE, 702
Chaoborus, 702
Characoma, 632
Charadra, 627
Charidryas, 684
Chariessa, 330
Chariesterus, 87
CHARIPINAE, 968
Charips, 968
Charisalia, 440
Chartolampra, 138
Chartoscirta, 138
Chasmatonotus, 711
Chauliodes, 38
Chauliognathus, 322
Cheiloneurinus, 979
Chelipoda, 784
Chelogynus, 1008
Chelonus, 903
Chelymorpha, 483
CHERMIDAE, 182
Chersodromia, 784
Chevrolatia, 276
Chilo, 579
Chilocorus, 398
CHILOGNATHA, 1079
CHILOPODA, 1081
Chilopora, 308
Chilosia, 793
Chilostigma, 530
Chimarrha, 524
Chion, 435
Chionaspis, 198
Chionea, 694
Chiracanthium, 1061
Chirida, 484
Chiromantis, 784
Chiromyia, 864
CHIRONOMIDAE, 707
CHIRONOMINAE, 710
Chironomus, 712
Chirotenetes, 42
Chirothrips, 68
Chlaenius, 242
Chlaenogramma, 609
Chlamydatus, 110
CHLAMYDINAE, 463
Chlamys, 463
Chloealtis, 29
Chloralictus, 1025
Chloridea, 664
Chlorion, 1010, 1011
Chlorissa, 590
Chlorochlamys, 591
Chlorochroa, 79
Chloroperla, 58
CHLOROPIDAE, 860
Chloropisca, 860
Chlorops, 860
Chlorotettix, 171
Choëphora, 661
Choeridium, 418
Choleva, 272
Cholomyia, 822
Choragus, 487
Choreutis, 554
Chorinaeus, 951
Chorizagrotis, 662
Choropleca, 539
Choroterpes, 42
Chorthippus, 30
Chortophaga, 31
Chramesus, 515
Chremylus, 900
Chromagrion, 48
Chromatia, 399
Chromocryptus, 931
CHRYSAUGINAE, 571
Chrysidea, 991
CHRYSIDIDAE, 990
Chrysis, 991
Chrysobothris, 359
Chrysocharis, 982
Chrysocharomyia, 983
Chrysochlamys, 794
Chrysochroma, 751
Chrysochus, 469
Chrysodina, 466
Chrysogaster, 792
Chrysomela, 471
CHRYSOMELIDAE, 458
CHRYSOMELINAE, 469
Chrysomphalus, 201
Chrysomyza, 850
Chrysopa, 40
Chrysophanus, 680
CHRYSOPIDAE, 40
Chrysopilus, 759
Chrysopoctonus, 930
Chrysopora, 550
Chrysops, 754
Chrysotachina, 813
Chrysotimus, 776
Chrysotoxum, 792
Chrysotus, 772
Chthonolasius, 1000
Chutapha, 645
Chyliza, 856
Chymomyza, 862
Chysogona, 991
Chytolita, 622
Chytonix, 644
Cicada, 144
Cicadella, 160
CICADELLIDAE, 156
CICADELLINAE, 160
CICADIDAE, 142
Cicadula, 172
Cicindela, 204
CICINDELIDAE, 204
Cicinnus, 586
Cicurina, 1063
Cidaphus, 959
Cimbex, 875
CIMBICIDAE, 875
CIMBICINAE, 875
Cimex, 108
CIMICIDAE, 108
Cinclidia, 684
Cincticornia, 730
Cinctotipula, 699
Cindaphia, 574
Cinetus, 962
Cingilia, 604
Cinglis, 591
Cinyra, 357
Circotettix, 33
Cirphis, 654
Cirrhophanus, 636
Cirrospilus, 983
Cirrula, 859
Cis, 416
CISIDAE, 416
CISINAE, 416
Cissia, 682
Cissusa, 625
Cistogaster, 805
Citheronia, 586
CITHERONIIDAE, 586
CIXIINAE, 177
Cixius, 177
Cladara, 593
CLADIINAE, 889
Cladius, 890
Cladura, 694
CLAMBIDAE, 274
Clambus, 274
Clanoneurum, 856
Clastoptera, 146
Clastopteromyia, 862
Clausicella, 807
CLAVIGERIDAE, 312
Clavigerus, 186
Cleidogona, 1081
Cleis, 397
Clemensia, 669
Cleonus, 503
Cleora, 602
Cleotus, 422
CLERIDAE, 327
CLERINAE, 327
Climacia, 39
Clinidium, 373
Clinocentrus, 901
Clinocephalus, 30
Clinocera, 785
Clinodiplosis, 733
Clinorhyncha, 726
Clinotanypus, 710
Clioperla, 58
Clisodon, 1027
CLISTOGASTRA, 895
Clistomorpha, 811
Clistopyga, 937
Clivina, 212
CLIVINEMINAE, 115
Cloeon, 44
Closterocerus, 983
Clubiona, 1062
CLUBIONIDAE, 1061
Clusia, 844
CLUSIIDAE, 844
Clusiodes, 844
Clytoleptus, 447

CLYTRINAE, 462
Clytus, 448
Cnemodon, 793
Cnemodus, 97
Cnemogonus, 506
Cnephalogonia, 818
Cnephasia, 567
Cnesinus, 515
Cocceius, 671
COCCIDAE, 193
Coccidula, 394
COCCINAE, 196
Coccinella, 396
COCCINELLIDAE, 392
COCCINELLINAE, 392
Coccobaphes, 126
Coccophagus, 982
Coccus, 196
Cochlidion, 536
Cochliomyia, 827
Coecidencyrtus, 979
Coelambus, 255
Coelinidea, 920
Coeliodes, 507
Coelioxys, 1029
Coelogaster, 508
Coeloides, 896
Coelomyia, 833
Coelostathma, 566
Coelostethus, 413
Coelotanypus, 709
Coelotes, 1064
Coenagrion, 48
Coenocalpe, 595
COENOCOELIINAE, 895
Coenocoelius, 896
Coenomyia, 750
COENOMYIIDAE, 750
Coenosia, 835
COENOSIINAE, 835
Coenus, 81
Colaspis, 467
Colenis, 273
Coleocentrus, 939
Coleophora, 543
COLEOPHORIDAE, 543
COLEOPTERA, 203
Collaria, 123
COLLEMBOLA, 12
Colletes, 1021
COLLETINAE, 1021
Collops, 326
Coloboneura, 784
Colobopterus, 42
Colocasia, 627
Colon, 273
Colopha, 189
Colopterus, 375
Colpocephalum, 63
Colpodia, 717
Colpodota, 305
Colpognathus, 927
Colpotrochia, 951
COLYDIIDAE, 387
Colydium, 388
Colymbetes, 260
COLYMBETINAE, 258
Comedo, 983
Commophila, 570
Compsocryptus, 931
Condidea, 798
Condylolomia, 572
Condylorrhiza, 573
Conicera, 790
Coninomus, 389
CONIOPTERYGIDAE, 42
Coniopteryx, 42
Conistra, 650
Connophron, 275
Conocephalus, 24
Conophthorus, 518
Conopia, 556
CONOPIDAE, 803
Conops, 803
Conosoma, 297
Conotelus, 376
Conotrachelus, 509
Conservula, 645
Contarinia, 731
Conwentzia, 42
Copelatus, 260
Copidita, 332
Copidosoma, 979
Copipanolis, 652
COPRINAE, 417
Copris, 418
Coprothassa, 305
Coptodera, 238
Coptodisca, 544
Coptotomus, 260
Coquillettomyia, 732
Coras, 1065
Cordilura, 841
Cordulegaster, 49
Cordulia, 53
Cordyla, 744
Cordylomyia, 716
Cordyluridae, 841
COREIDAE, 86
COREINAE, 86
Corethra, 702
Corethrinae, 702
Corimelaena, 76
Corinthiscus, 330
Corinthomyia, 716
CORISCINAE, 87
Coriscus, 88
Corixa, 142
CORIXIDAE, 141
CORIZINAE, 89
Corizus, 89
Cornicularia, 1046
CORRODENTIA, 60
Corthylus, 517
Corticaria, 389
Corticoris, 135
Corticotomus, 373
Corycia, 598
CORYDALINAE, 38
Corydalis, 38
Corylophodes, 276
Coryna, 888
CORYNETINAE, 330
Corynoneura, 711
Corythaica, 102
Corythucha, 100
Coscinoptera, 462
Cosmia, 636
Cosmoconus, 947
Cosmopepla, 82
Cosmophorus, 916
Cosmopteryx, 553
COSSIDAE, 570
COSSONINAE, 511
Cossonus, 511
Cosymbia, 592
Cotalpa, 427
Cothonaspis, 968
Cotinis, 428
Coxelus, 388
Crabro, 875, 1019
CRABRONIDAE, 875
CRABRONINAE, 875, 1019
CRABRONINI, 1019
Crambidia, 669
CRAMBINAE, 578
Crambodes, 640
Crambus, 579
Craponius, 506
CRASPEDOSOMIDAE, 1080
Crassiseta, 861
Crassomicrodus, 911
Cratacanthus, 244
Crataraea, 307
Cratoparis, 486
Cratospila, 919
Cregya, 330
CREMASTINI, 957
Cremastobomycia, 542
Cremastocheilus, 429
Cremastus, 958
Crematogaster, 966
Cremnops, 910
Crenitis, 268
Creophilus, 294
Crepidodera, 478
Cressonia, 611
Cricotopus, 711
Crigmus, 348
Criocephalus, 434
CRIOCERINAE, 461
Crioceris, 461
Criocoris, 113
Criorhina, 801
Crocidophora, 574
Crocigrapha, 655
Crophius, 95
Crosbycus, 1074
Crosimus, 385
Crossocerus, 1020
Crustulina, 1039
Cryobius, 223
Cryphalus, 518
Cryphia, 634
Cryphoeca, 1065
Cryphula, 99
Cryptarcha, 379
CRYPTARCHINAE, 379
CRYPTINAE, 928
CRYPTINI, 930
Cryptobiella, 285
Cryptocala, 659
CRYPTOCEPHALINAE, 463
Cryptocephalus, 464
Cryptocercus, 20
Cryptocheilus, 988
Cryptohypnus, 347
Cryptoideus, 931
Cryptolabis, 694
Cryptolechia, 544
Cryptoleon, 41
Cryptolucilia, 828
Cryptomeigenia, 807
Cryptomyzus, 189
CRYPTOPHAGIDAE, 385
CRYPTOPHAGINAE, 385
Cryptophagus, 385
CRYPTOPIDAE, 1082
Cryptopleurum, 270
Cryptops, 1082
Cryptorhophalum, 371
Cryptorhynchus, 510

CRYPTOSTEMATIDAE, 135
Cryptothrips, 71
Crypturgus, 515
Crypturopsis, 932
Cryptus, 931
Crytophyllaspis, 201
CTENISCINI, 948
Cteniscus, 948
Ctenocephalus, 868
Ctenolepisma, 11
Ctenopelma, 945
Ctenophora, 699
Ctenophthalmus, 869
Ctenothrips, 69
Ctenucha, 670
CUCUJIDAE, 380
Cucujus, 381
Cucullia, 653
CUCULLIINAE, 649
Culex, 703
CULICIDAE, 702
CULICINAE, 703
Culicoides, 707
Culiseta, 704
Cupes, 331
CUPESIDAE, 331
Cuphocera, 819
CURCULIONIDAE, 488
CURCULIONINAE, 493
Curtisapis, 1025
Curtonotum, 863
Curtonotus, 226
Cuterebra, 805
CUTEREBRIDAE, 805
Cyaniris, 681
Cybaeus, 1065
Cybister, 262
CYBISTERINAE, 262
Cychramus, 378
Cycloneda, 396
Cycloplasis, 555
Cycloptilum, 28
Cyclosa, 1054
Cyclotrachelus, 222
CYCNODIIDAE, 544
CYDNIDAE, 76
CYDNINAE, 77
CYLAPINAE, 115
Cylapus, 115
Cylindrocharis, 221
Cylindrocopturus, 506
Cylindromyia, 813
Cylindrotoma, 698
CYLINDROTOMINAE, 698
Cylistix, 316
Cyllene, 445
Cylloceria, 934
Cyllodes, 378
Cymatodera, 327
Cymatophora, 598, 600
Cymbiodyta, 268
CYMINAE, 93
Cymindis, 240
Cymodusa, 965
Cymolomia, 564
Cymus, 93
CYNIPIDAE, 967
CYNIPINAE, 968
Cynips, 971
Cynomyia, 827
Cynorrhina, 801
Cyphomimus, 491
Cyphon, 369
Cyphopyga, 1029
CYRTIDAE, 760
Cyrtinus, 449
Cyrtogaster, 980
Cyrtolobus, 152
Cyrtoma, 787
Cyrtomenus, 77
Cyrtophloeba, 812
Cyrtophorus, 448
Cyrtopogon, 766
Cyrtorhinus, 119
Cyrtusa, 273
Cysteopteryx, 592
Cystiphora, 722
Cytilus, 372

D

Dacne, 384
Dacnusa, 920
Dactylocladius, 711
Dactylolabis, 694
DACTYLOPIINAE, 194
Dactylopius, 195
Dalmannia, 804
DANAINAE, 681
Danaus, 681
Daremma, 610
DASCILLIDAE, 368
DASCILLINAE, 368
Dasyglossa, 307
Dasylechia, 768
Dasyllis, 768
Dasylophia, 615
Dasymolophilus, 693
Dasymutilla, 993
Dasyneura, 720
DASYNEURIARIAE, 719
DASYPOGONINAE, 765
Datana, 614
Datomicra, 303
Debis, 682
Decantha, 546
Decarthron, 311
Decatoma, 976
Deceia, 848
Dectes, 454
Degeeriella, 65
Deidamia, 612
Deilephila, 613
Deilinea, 599
Deinopsis, 298
Deleter, 950
Delomegachile, 1029
Delomerista, 943
Delopsis, 747
Delorrhipis, 1046
Deloyala, 484
DELPHACINAE, 180
Delphacodes, 181
Delphastus, 394
Delta, 641
Deltocephalus, 165
Deltometopus, 353
Demas, 627
Dendrocoris, 83
Dendroctonus, 516
Dendroides, 339
Dendroleon, 41
Dendrophagus, 382
Dendrophaonia, 830
Dendrophilus, 317
Dendrotettix, 34
Dentifibula, 731
Deopalpus, 819
Depressaria, 545
Deptalia, 592
DERAEOCORINAE, 115
Deraeocoris, 116
DERBINAE, 179
Dercetis, 619
DERMAPTERA, 202
Dermestes, 370
DERMESTIDAE, 370
DERMESTINAE, 370
Derobrachus, 433
DERODONTIDAE, 384
Derodontus, 384
Deromyia, 767
Derostenus, 983
Derrima, 636
Desmia, 573
Desmocerus, 443
Desmometopa, 865
Desmopachria, 254
Deuteroxorides, 940
Dexia, 821
DEXIIDAE, 821
Diabrotica, 474
Diachorisia, 539
Diachus, 465
Diacrisia, 667
Diacritus, 959
Diactinia, 594
Diadocidia, 740
DIADOCIDIINAE, 740
Dialges, 946
Dialysis, 758
Dialyta, 831
Dialytes, 420
Diamesa, 710
Dianous, 283
Dianthidium, 1029
DIAPERINAE, 402
Diaperis, 402
Diaphania, 573
Diapheromera, 20
Diaphnidia, 121
DIAPHORINAE, 772
Diaphorus, 772
Diapria, 963
DIAPRIIDAE, 962
DIAPRIINAE, 963
DIASPINAE, 198
Diaspis, 199
Diastata, 864
Diastichtis, 573, 600
Diastrophus, 973
Diathrausta, 577
Diatraea, 578
Diaulinus, 983
Diazosma, 689
Dibolia, 481
Diboloceius, 266
Dibrachys, 980
Dicaelus, 229
Dicerca, 355
Dichaeta, 858
Dichaetoneura, 808
Dichelonyx, 425
Dichocera, 819
Dichomeris, 548
Dichorda, 590
Dichromorpha, 30
Dichrooscytus, 129
Diclasiopa, 857
Dicranomyia, 689
Dicranophragma, 695
Dicranopselaphus, 368
Dicranoptycha, 691

Dicrodiplosis, 732
Dictya, 846
Dictyna, 1035
DICTYNIDAE, 1034
Dictyomyia, 846
Dictyophara, 176
DICTYOPHARINAE, 176
Dicymbium, 1046
Dicymolomia, 572
DICYPHINAE, 114
Dicyphus, 114
DICYRTOMINAE, 17
Didactylomyia, 717
Didea, 795
Didineis, 1015
Didyma, 809
Didymops, 52
Dietzella, 508
Dikraneura, 173
Dilachnus, 184
Dilophonota, 611
Dilophus, 749
Dimecaenia, 859
Dimetrota, 304
Dimmockia, 983
Dimorphopteryx, 879
Dinaraea, 303
Dinera, 823
DINETINI, 1009
Dineura, 890
Dineutes, 262
Dinocampus, 916
Diochus, 290
Dioctes, 957
Dioctria, 766
Diodontus, 1013
Dioedus, 403
Diomonus, 742
Dione, 683
DIOPSIDAE, 856
Dioryctria, 581
Diorymerellus, 505
Diostracus, 776
Diphadnus, 894
Diphlebus, 1014
Diphthera, 644
Diplazon, 949
DIPLAZONINI, 949
Diplectrona, 524
Diplocephalus, 1046
Diplocoelus, 385
Diplodontia, 976
Diploiulus, 1079
Diplolepis, 969
DIPLOPODA, 1079
Diplotaxis, 423
Diplotoxa, 860
Dipoena, 1039
Diprion, 877
DIPRIONIDAE, 877
DIPTERA, 687
Dipterygia, 648
Dircaea, 411
Dirhiza, 718
Discobola, 690
Discocerina, 857
Discoderus, 247
Disholcaspis, 970
Disonycha, 476
Dissosteira, 32
Distenia, 433
Ditrichophora, 857
Ditropinotus, 975
Ditylus, 332
Dixa, 702
DIXIDAE, 702
Docosia, 744
Dohrniphora, 788
Dolba, 609
DOLERINAE, 881
Dolerus, 881
DOLICHODERINAE, 998
Dolichoderus, 999
Dolichopeza, 698
DOLICHOPODIDAE, 771
DOLICHOPODINAE, 777
Dolichopus, 777
Dolichosoma, 327
Dolichotrypes, 966
Dolichovespula, 1007
Dolomedes, 1065
Dolophilus, 524
Dolopius, 348
Donacia, 458
DONACIINAE, 458
Dorcatoma, 414
Dorchaschema, 450
DORCINAE, 431
Dorcus, 431
Dorocordulia, 53
Doros, 796
Doru, 203
Doryctes, 899
DORYCTINAE, 899
Dorylaidae, 791
Dorymyrmex, 999
Doryodes, 629
Doryphorophaga, 815
Dorypteryx, 62
Dorytomus, 496
DOUGLASIIDAE, 544
Draeculacephala, 161
Drapetes, 354
Drapetis, 783
Drapetisca, 1046
Drassodes, 1036
Drassyllus, 1037
Drasteria, 625, 629
Drepana, 589
Drepanaphis, 185
DREPANIDAE, 589
Drepanodes, 608
Drepanosiphum, 185
Drepanulatrix, 599
Driotura, 167
Dromaeolus, 353
Dromius, 238
Dromogomphus, 50
Drosophila, 862
DROSOPHILIDAE, 862
Drusus, 530
DRYINIDAE, 1008
Drymus, 98
Dryobius, 434
Dryocoetes, 520
Dryocosmus, 970
Dryomyza, 845
Dryophanta, 969
Dryophthorus, 511
DRYOPIDAE, 366
DUFOURIELLINAE, 110
Dufouriellus, 110
Duvita, 549
Dynastes, 428
DYNASTINAE, 427
Dynatosoma, 745
Dyschirius, 211
Dyscinetus, 427
Dysdera, 1036
DYSDERIDAE, 1036
Dysidius, 225
Dysmigia, 601
Dyspteris, 593
Dyspyralis, 624
Dysstroma, 594
DYTISCIDAE, 254
DYTISCINAE, 261
Dytiscus, 261

E

Eacles, 586
Earinus, 911
Earophila, 596
Ebo, 1058
Eburia, 435
Eccoptogaster, 514
Ecdyonurus, 45
Ecdytolopha, 558
Echidnophaga, 868
Echinomyia, 820, 821
Echinothrips, 67
Echmepteryx, 62
Echthodopa, 766
Echthronomas, 965
Echthrus, 931
Eclytus, 944
Ecpantheria, 667
Ecphylus, 900
Ectamonogonus, 251
Ectoedemia, 535
Ectopimorpha, 921
Ectopria, 368
ECTRICHODIINAE, 105
Ectropis, 603
Ecyrus, 454
Egle, 839
Eiphosoma, 957
Elachertus, 983
Elachista, 544
ELACHISTIDAE, 544
Elampus, 990
Elaphidion, 436
Elaphrothrips, 72
Elaphrus, 209
Elasmopalpus, 582
Elasmosoma, 904
Elasmostethus, 84
Elater, 349
ELATERIDAE, 342
ELATERINAE, 348
Eleates, 402
Elephantomyia, 696
Eleusis, 277
Elipsocus, 62
Elis, 992, 995
Elleschus, 502
Ellida, 617
Ellopia, 605
Elonus, 341
Elophila, 577
Elytroleptus, 449
Ematurga, 598
Emblethis, 98
Emesa, 103
Emesaya, 103
Emmesa, 410
Emmesomyia, 836
Empalia, 742
Empeda, 692
Emphanopteryx, 807
Emphytina, 880
EMPHYTINAE, 878, 886

Emphytus, 880
Empicoris, 103
EMPIDIDAE, 783
Empis, 786
Emplenota, 307
Empoa, 174
Empoasca, 173
Empria, 886
EMPRIINAE, 886
Enallagma, 47
Enargia, 636
Enarmonia, 558
Encarsia, 982
Enchenopa, 156
Enchodes, 410
Enchrysa, 550
Encoptolophus, 31
Encyclops, 443
ENCYRTIDAE, 979
Encyrtus, 979
Endalus, 497
Endecatomus, 415
Enderleinellus, 74
ENDOMYCHIDAE, 390
ENDOMYCHINAE, 390
Endomychus, 391
Endropia, 607
Enicmus, 389
ENICOCEPHALIDAE, 103
Enicospilus, 952
Enizemum, 949
Ennearthron, 417
ENNOMINAE, 598
Ennomos, 605
Enochrus, 268
Enoclerus, 328
Enodia, 682
Enoplognatha, 1039
Entephria, 595
Entomobrya, 15
ENTOMOBRYIDAE, 13
ENTOMOBRYINAE, 15
Entomophthalmus, 353
Entylia, 155
Eois, 591
EOSENTOMIDAE, 1083
Eosentomon, 1083
Eosphoropteryx, 626
Epachthes, 947
Epalpus, 820
Eparces, 927
Epargyreus, 670
Epelis, 598
Epeolus, 1024
Epeorus, 45
Epermenia, 553
Ephalus, 401
Ephedrus, 918
Ephelia, 695
Ephemera, 44
Ephemerella, 44
EPHEMERIDA, 42
EPHEMERIDAE, 42
EPHEMERINAE, 44
Ephestia, 583
Ephestiodes, 583
Ephialtes, 936, 941
EPHIALTINI, 936
Ephistemus, 386
Ephuta, 995
Ephydra, 859
EPHYDRIDAE, 856
EPHYDRINAE, 858
Epia, 657
Epiaeschna, 52
Epiblema, 560
Epicaerus, 492
Epicauta, 337
Epichloropus, 860
Epicnaptera, 588
Epicordulia, 52
Epicypta, 746
Epidiaspis, 200
Epidiplosis, 736
Epierus, 317
Epiglaea, 650
Epigrimyia, 811
Epilachna, 398
EPILACHNINAE, 398
Epimecis, 603
EPIMORPHA, 1082
Epinotia, 559
Epipaschia, 580
EPIPASCHIINAE, 580
Epiphanis, 354
EPIPHRAGMA, 694
EPIPLEMIDAE, 585
Epiptera, 176
Epirhyssalus, 901
Epirranthis, 606
Epirrita, 595
Episcopellus, 249
Episilia, 661
Episimus, 563
Epistrophe, 796
Episyron, 986
Epithectis, 550
Epitrimerus, 1078
Epitrix, 479
Epiurus, 942
Epizeuxis, 623, 624
Epochra, 851
Epomyia, 764
Epurea, 377
Erannis, 604
Erastria, 639
ERASTRIINAE, 633
Erax, 769
Erchomus, 296
EREBINAE, 624
Erebus, 624
Eremobia, 646
Eremocoris, 99
Eremomyia, 837
Eremomyoides, 837
Eremotylus, 952
Eridontomerus, 975
Erigone, 1046
Erinnyis, 611
Eriocampa, 879
Eriocampoides, 885
Eriocera, 697
Eriococcus, 194
Eriocrania, 534
ERIOCRANIIDAE, 534
Eriopeltis, 196
Eriophyes, 1077
ERIOPHYIDAE, 1076
ERIOPHYINAE, 1077
Erioptera, 692
ERIOPTERINI, 691
Eriopus, 645
Eriopyga, 656
Eriosoma, 190
ERIOSOMATINAE, 189
ERIOSOMATINI, 189
Eristalis, 798
Eritettix, 29
Eritrissomerus, 966
Ernestia, 813
Ernobius, 413
Ero, 1058
Erora, 680
Eros, 320
EROTYLIDAE, 383
EROTYLINAE, 383
Erromenus, 948
ERYCINIDAE, 681
Erycus, 497
Erynnis, 672
Erythemis, 55
Erythraspides, 887
Erythrodiplax, 55
Erythroneura, 175
Escaryus, 1083
Estheria, 823
ESTHIOPTERINAE, 65
Esthiopterum, 65
Estigmene, 667
Ethmia, 546
ETHOPOLIDAE, 1081
Euacidalia, 591
Euadmontia, 808
EUAESTHETINAE, 284
Euaesthetus, 284
Euaraba, 824
Euaresta, 853
Eubadizon, 912
Eubaphe, 668
EUBRIINAE, 368
Eucalymnatus, 196
Eucalyptra, 621
Eucanthus, 421
Euceraphis, 185
Eucerceris, 1017
Euceros, 944
EUCEROSINA, 944
Euchaetias, 666
Euchlaena, 607
Euchoeca, 597
EUCHROMIIDAE, 670
Eucicones, 387
EUCINETINAE, 368
Eucinetus, 368
Eucirrhoedia, 649
Euclea, 535
EUCLEIDAE, 535
Euclemensia, 555
Euclidia, 629
Euclyptus, 496
EUCNEMINAE, 352
Eucoilidea, 968
EUCOILINAE, 968
Euconnus, 274
Eucoptocnemis, 661
Eucordylea, 550
Eucorethra, 702
Eucosma, 560
EUCOSMINAE, 557
Eucrada, 412
Eucrostis, 591
Eucta, 1055
Eucymatoge, 598
Eudamus, 670
Eudeilinea, 589
Euderces, 448
Eudicrana, 741
Eudioptis, 573
Eudociminus, 496
Eudryas, 634
Eudule, 597
Eueretagrotis, 659

Euferonia, 222
Eufidonia, 598
Euforcipomyia, 707
Eugaediopsis, 819
Eugaurax, 861
EUGLENIDAE, 341
Eugnamptus, 488
Eugnatha, 1055
Eugnathodus, 173
Eugnoriste, 747
Eugonia, 605
Eugonobapta, 605
Euhaematopinus, 74
Euhybos, 785
Euhyperecteina, 807
Eulachnus, 184
Eulasiona, 807
Eulathrobium, 286
Eulechriops, 506
Eulia, 567
Eulimneria, 957
Eulimnichus, 373
EULOPHIDAE, 982
Eulype, 596
Eumacaria, 601
Eumacrocentrus, 914
Eumasicera, 816
Eumenes, 1004
EUMENINAE, 1004
Eumerus, 800
Eumesiina, 944
Eumetopiella, 851
Eumeyrickia, 544
Eumichtis, 651
Eumicrota, 300
Eumolops, 222
EUMOLPINAE, 466
Eumyiolepta, 793
Eupactus, 414
Eupanychis, 663
Euparius, 486
Euparthenos, 629
Euparyphus, 753
Eupelecotheca, 815
EUPELMIDAE, 980
Eupelmus, 980
Euphorantha, 806
Euphoria, 428
Euphoriana, 916
EUPHORINAE, 915
Euphormia, 827
Euphorus, 916
Euphydryas, 684
Euphyes, 674
Euphyia, 596
Eupithecia, 597
Euplectus, 308
Euplexia, 647
Eupogonius, 454
Eupristocerus, 361
Euproctis, 618
Eupsalis, 485
Eupteromalus, 980
EUPTEROTIDAE, 587
Eupteryx, 174
Euptoieta, 683
Eurema, 678
Euresia, 551
Europs, 380
Eurosta, 852
Eurctype, 651
Eurychilopterella, 116
Eurycyttarus, 539
Eurygaster, 76
Eurylabus, 927
Eurymus, 678
Eurymycter, 486
Euryophthalmus, 99
Euryopis, 1039
Eurypogon, 368
EURYPROCTINA, 946
Euryproctus, 946
Euryscelis, 447
Eurytoma, 977
EURYTOMIDAE, 976
Eurytomocharis, 977
Euscelis, 167
Euschistus, 80
Eusimulium, 749
Eusiphona, 865
Eusisyropa, 814
Eusphyrus, 486
Eustala, 1055
Eustalomyia, 837
Eustictus, 115
Eustroma, 593
Eustrophinus, 408
Eustrophus, 409
Eustrotia, 634
Eutelia, 633
EUTELIINAE, 633
Eutelus, 981
Eutettix, 168
Euthera, 817
Eutheresia, 823
Euthisanotia, 634, 655
Euthochtha, 87
Euthyatira, 588
Euthycera, 846
Eutochia, 404
Eutolype, 652
Eutonia, 695
Eutrapela, 607
Eutreta, 852
Eutrichogena, 818
Eutrixa, 811
Eutylistus, 414
Euura, 894
Euxenus, 487
Euxesta, 850
Euxoa, 662
Euzophera, 583
Evacanthus, 161
Evania, 984
Evaniella, 984
EVANIIDAE, 984
Evarcha, 1070
Evarthrus, 222
Everes, 680
Evergestis, 573
Evetria, 562
Evippe, 550
Evodinus, 438
Evophrys, 1070
Evoxysoma, 977
Exartema, 564
Exechia, 745
Exechophysis, 1047
Exema, 463
Exentera, 563
Exetastes, 932
EXOCHINI, 950
Exochomus, 398
Exochus, 951
Exoprosopa, 761
Exorista, 815, 817
Exoristoides, 815
Exyra, 633
Exyston, 948

F

Fabiola, 546
Fabriciella, 820
Fagitana, 645
Falagria, 306
Falcaria, 589
Fannia, 833
FANNIINAE, 833
Feltia, 662
Feltiella, 732
Feniseca, 680
Fentonia, 617
Fenusa, 886
Fenusinae, 885
Feralia, 653
Ferdinandea, 794
Fidia, 468
Fidiobia, 966
Fidonia, 598
Figites, 968
FIGITINAE, 968
Fiorinia, 199
Fitchia, 105
Fitchiella, 178
FLATINAE, 178
FOENIDAE, 961
Foenus, 961
Folsomia, 13
Fontaria, 1080
Forcipomyia, 708
Forda, 191
FORDINI, 191
Forficula, 203
FORFICULIDAE, 202
FORFICULINAE, 203
Formica, 1001
FORMICIDAE, 995
FORMICINAE, 999
Fornax, 353
Francoa, 188
Frankliniella, 68
FRENATAE, 534
Frontina, 815
Fucellia, 841
FUCELLIINAE, 841
Fuentes, 1070
FULGORIDAE, 176
Fulvius, 115

G

Gabara, 621
Gaberasa, 621
Galasa, 571
Galeatus, 101
Galerita, 236
Galerucella, 473
GALERUCINAE, 472
Galesus, 963
Galgula, 640
Galgupha, 76
Galleria, 572
GALLERIINAE, 572
Ganonema, 526
Garganus, 132
Gargaphia, 102
GASTEROPHILINAE, 892
Gasterophilus, 829
Gasteruption, 961
GASTERUPTIONIDAE, 961
Gastrellarius, 222
Gastroidea, 471
Gastrolobium, 284
Gastrosticta, 223
Gaurax, 861
Gauropterus, 288

Gaurotes, 438
GELASTOCORIDAE, 141
Gelastocoris, 141
Gelchossa, 102
Gelechia, 547
GELECHIIDAE, 547
GELINI, 930
Gelis, 930
Gelus, 506
Genea, 810
GEOCORINAE, 94
Geocoris, 94
Geoderces, 493
Geodrassus, 1037
Geodromicus, 279
Geoica, 191
GEOMETRIDAE, 589
GEOMETRINAE, 598
GEOMYZIDAE, 864
GEOPHILIDAE, 1083
GEOPHILOMORPHA, 1083
Geophilus, 1083
Geopinus, 244
GEORYSSIDAE, 368
Georyssus, 368
Geosargus, 751
Geotomus, 77
Geotrupes, 421
GEOTRUPINAE, 421
Geraeus, 504
Geranomyia, 690
Gerdana, 544
Geron, 764
GERRIDAE, 135
GERRINAE, 135
Gerris, 135
Geshna, 577
Giardomyia, 735
Gibbium, 412
Ginglymyia, 811
Glaea, 650
Glaphyria, 572
GLAPHYRIINAE, 572
GLAPHYRINAE, 422
Glauce, 549
Glaucopsyche, 681
Glena, 602
Glenognatha, 1055
Glischrochilus, 379
Glossonotus, 150
GLOSSOSOMATINAE, 522
Gluphisia, 617
Glutops, 750
Glycerius, 249
Glycobius, 446
Glyphicnemis, 928
Glyphidocera, 549
GLYPHIPTERYGIDAE, 554
Glyphipteryx, 554
Glyphonyx, 349
Glyphopsyche, 530
Glyphotaelius, 529
Glypta, 934
Glyptina, 481
GLYPTINI, 934
Glyptocera, 582
Glyptocranium, 1055
Glyptodoryctes, 899
Glyptoscelis, 468
Glyptothrips, 72
Gnaphosa, 1037
GNAPHOSIDAE, 1036
Gnathias, 1026
Gnathocerus, 403
Gnathoncus, 319
Gnathotrichus, 518
Gnophomyia, 693
Gnorimella, 429
Gnorimoschema, 547
Gnoriste, 743
Gnypeta, 305
Gobaishia, 190
Goera, 531
GOERINAE, 531
Goes, 450
Gomphaeschna, 51
Gomphoides, 49
Gomphus, 50
Gonaspis, 973
Gonatium, 1047
Gonatocerus, 984
Gonatopus, 1008
Gonempeda, 692
Gongylidiellum, 1047
Gonia, 818
Goniocotes, 64
Goniodes, 64
GONIODINAE, 64
Goniolophus, 250
Goniops, 754
Gonocallus, 444
Gonochrysis, 991
Gonodontis, 606
Gonomyia, 693
Gonotropis, 486
Gortyna, 636, 638
Gorytes, 1015
Gossyparia, 194
Gracilaria, 541
GRACILARIIDAE, 541
Gracilia, 436
Grammonota, 1047
Grammospila, 920
Graphisurus, 453
Graphocephala, 161
Graphoderes, 262
Graphomyia, 829
Graphops, 467
GRAPHOSOMATINAE, 78
Graptolitha, 651
Gretchina, 562
Gronevus, 276
Grotea, 938
GRYLLIDAE, 26
Gryllotalpa, 28
Gryllus, 26
Gryon, 964
Grypidius, 497
Gueneria, 599
Gymnandrosoma, 558
Gymnaspis, 201
Gymnetron, 503
Gymnoclytia, 805
Gymnococcus, 195
Gymnopa, 856
Gymnophora, 789
GYMNOPINAE, 856
Gymnoprosopa, 824
Gymnopternus, 781
Gymnoscelus, 914
Gymnosoma, 806
Gymnusa, 298
Gynandropus, 246
Gypona, 162
GYPONINAE, 162
Gypsonoma, 563
GYRINIDAE, 262
Gyrinus, 263
Gyrohypnus, 289
Gyronycha, 299
Gyrophaena, 300

H

HABROCERINAE, 298
Habrocerus, 298
Habrocestum, 1070
Habrocytus, 981
Habronyx, 953
Habrophlebia, 44
Habrosyne, 588
Hadena, 645, 646, 647, 648, 651
HADENINAE, 654
Hadrobregmus, 413
Hadrobunus, 1076
HADRODACTYLINA, 945
Hadrodactylus, 946
Hadronema, 118
Haematobia, 828
HAEMATOPINIDAE, 73
Haematopinus, 73
Haematopis, 592
Haemodipsus, 74
Haemonia, 460
Hagenius, 49
Hahnia, 1065
Halesus, 529
Halictus, 1025
HALIPLIDAE, 252
Haliplus, 252
Hallomenus, 409
HALOBATINAE, 136
Haltica, 477
HALTICINAE, 475
Halticus, 118
Halysidota, 668
Hamamelistes, 191
Hammerschmidtia, 797
Hammoderus, 450
Hammomyia, 837
Hapalosalia, 437
Hapithus, 28
Haplandrus, 405
Haploa, 665
Haplodrassus, 1037
Haplothrips, 69
Harmolita, 977
Harmologa, 567
Harmostes, 89
HARPACTORINAE, 105
Harpaglaea, 650
Harpagoxenus, 998
HARPALINAE, 213
Harpalus, 244
Harpyia, 617
Harrisimemna, 644
Harrisina, 537
Hartomyia, 708
Hebecnema, 832
HEBRIDAE, 106
Hebrus, 106
HECABOLINAE, 899
Hecabolus, 899
Hecalus, 163
Hedroneura, 847
Hedychridium, 990
Hedychrum, 990
Heidemannia, 135
Helcon, 914
Helconidea, 914
HELCONINAE, 914
Heleomyza, 843
Helice, 551

Helichus, 366
Helicobia, 825
HELICONIINAE, 683
Helicopsyche, 531
HELICOPSYCHINAE, 531
Helina, 831
HELIODINIDAE, 555
Heliolonche, 664
Heliomata, 599
Heliophana, 664
Heliophila, 654
Heliothis, 664
Heliothrips, 67
HELIOZELIDAE, 544
Heliria, 150
Helius, 690
Helluomorpha, 240
HELMIDAE, 366
Helmis, 366
Helobia, 693
Helochara, 160
Helochares, 268
Helocombus, 269
Helocordulia, 52
Helodes, 368
HELODIDAE, 368
HELODINAE, 368
Helomyza, 843
HELOMYZIDAE, 842
Helophilus, 799
HELOPHORINAE, 265
Helophorus, 265
HELOPINAE, 407
Helops, 407
HELORIDAE, 962
Helorus, 962
Helotropha, 639
Hemaris, 612
HEMEROBIIDAE, 39
Hemerobius, 39
Hemerocampa, 617
Hemerodromia, 784
Hemiberis, 751
Hemichionaspis, 199
Hemichroa, 890
Hemicrepidius, 346
Hemileuca, 586
Hemimene, 557
Heminomada, 1026
HEMIPTERA, 74
Hemirhipus, 343
Hemitaxonus, 889
Hemiteles, 929
HEMITELINI, 929
HEMITHEINAE, 590
Hemyda, 811
HENICOPIDAE, 1082
Henoticus, 385
Heodes, 680
HEPIALIDAE, 534
Hepialus, 534
Heptagenia, 45
HEPTAGENINAE, 45
Heraeus, 96
Hercostomus, 782
Herculia, 578
Heriades, 1029
Heringia, 793
Hermetia, 751
HERMINIINAE, 621
Herpestomus, 927
Herpyllus, 1037
Herse, 609
Hesperia, 672
HESPERIIDAE, 670
HESPERIINAE, 670
Hesperobium, 284
Hesperophylax, 530
Hesperotettix, 34
Hesperotingis, 102
Hesperumia, 600
Hesperus, 292
Hetaerina, 46
Hetaerius, 318
Heterachthes, 436
Heterelmis, 367
Heterocampa, 615
HETEROCERIDAE, 367
Heterocerus, 367
Heterocola, 958
Heterocordylus, 121
Heterogamus, 902
Heterogenea, 537
Heterogramma, 621
Heteromyia, 708
Heteroneura, 844
HETERONEURIDAE, 844
Heteropelma, 953
HETEROPEZINAE, 716
Heterophleps, 593
Heteroplectron, 526
Heteropogon, 767
Heteropsylla, 182
Heterospilus, 900
HETEROTARSINAE, 406
Heterothops, 294
Heterothrips, 67
Heterotoma, 121
Hetoemis, 450
Hexachrysis, 991
Hexagenia, 44
Hexamitocera, 841
Hexarthrum, 512
Hexatoma, 697
HEXATOMINI, 694
Hilara, 786
Hilarella, 824
Hillia, 652
Himatinum, 511
Hindsiana, 70
Hippelates, 861
HIPPOBOSCIDAE, 868
Hippodamia, 395
Hippopsis, 455
Hippuriphila, 479
HISPINAE, 482
Hister, 314
HISTERIDAE, 314
HISTRINAE, 314
Holcocephala, 766
Holcocera, 551
Holocentropus, 525
Hololepta, 314
HOLOLEPTINAE, 314
Holoneurus, 719
Holonomada, 1026
Holoparamecus, 388
Holophris, 990
Holopogon, 766
Holopyga, 990
Holostrophus, 409
Homaemus, 76
Homalactia, 815
Homalota, 300
Homaspis, 945
Homochlodes, 601
Homoeosoma, 583
Homoeusa, 307
Homoglaea, 649
Homohadena, 653
Homoporus, 981
HOMOPTERA, 142
Homoptera, 628
Homopyralis, 620
Homotropus, 949
Hoplandria, 301
Hoplandrothrips, 72
Hoplia, 426
Hoplismenus, 927
Hoplisus, 1015
Hoplitis, 1028
Hoplocampa, 890
Hoplocephala, 402
Hoplocryptus, 931
Hoplodictya, 846
Hoplogaster, 836
Hoplogryon, 964
Hoplolabis, 692
Hoplopleura, 74
Hoplosia, 454
Hoploteleia, 965
Hoplothrips, 71
Horcias, 130
Horisme, 598
Horistonotus, 352
HORMAPHIINAE, 191
Hormaphis, 191
HORMIINAE, 900
Hormisa, 622
Hormius, 900
Hormomyia, 735
Hormorus, 491
Howardia, 198
Hulstia, 583
Hyadina, 858
Hyaliodes, 114
Hyalomyia, 806
Hyalomyodes, 810
Hyalopterus, 187
Hyamia, 620
Hybophanes, 944
Hybos, 785
Hybroma, 539
Hyctia, 1071
HYDATICINAE, 261
Hydaticus, 261
Hydnobius, 273
Hydnocera, 329
Hydraena, 264
HYDRAENINAE, 264
Hydrelia, 597
Hydrellia, 857
Hydria, 593
Hydriomena, 594
Hydrobius, 267
Hydrocanthus, 254
HYDROCHINAE, 265
Hydrochus, 265
Hydroecia, 636, 639
Hydrometra, 135
HYDROMETRIDAE, 135
Hydromyza, 842
HYDROPHILIDAE, 264
HYDROPHILINAE, 265
Hydrophilus, 266
Hydrophoria, 837
HYDROPHORINAE, 777
Hydrophorus, 777
Hydrophylax, 984
HYDROPORINAE, 254
Hydroporus, 256
Hydropsyche, 524

HYDROPSYCHIDAE, 524
HYDROPSYCHINAE, 524
Hydropsychodes, 525
Hydroptila, 523
HYDROPTILIDAE, 523
Hydrosmecta, 303
Hydrotaea, 832
HYDROTAEINAE, 832
Hydrous, 266
Hydrovatus, 254
HYLAEIDAE, 1021
HYLAEINAE, 1022
Hylaeus, 1022
Hylastes, 517
Hylastinus, 516
Hylecoetus, 331
Hylemyia, 838
Hylephila, 673
HYLESININAE, 515
Hylobius, 496
Hylocurus, 516
Hyloicus, 610
Hylota, 307
Hylotoma, 876
HYLOTOMIDAE, 876
HYLOTOMINAE, 876
Hylotrupes, 444
Hylurgopinus, 516
Hylurgops, 516
Hymenarcys, 81
Hymenia, 572
HYMENOPTERA, 870
Hymenorus, 399
Hymetta, 175
Hypargyricus, 887
Hyparpax, 616
Hypatus, 681
Hypena, 618
HYPENINAE, 618
Hypenula, 621
Hypera, 494
Hyperaeschra, 614
Hyperaspis, 392
Hyperdiplosis, 735
Hyperecteina, 809
Hyperitis, 606
Hypermallus, 435
Hyperodes, 495
Hyperplatys, 453
Hyphantria, 667
Hyphoraia, 667
Hypnoidus, 347
Hypocala, 625
Hypocera, 788
Hypochaeta, 810
Hypocoeliodes, 507
Hypocoelus, 354
Hypodacne, 384
Hypoderma, 805
Hypogeocoris, 95
Hypolampsis, 475
Hypomedon, 287
Hypomma, 1047
Hypomolyx, 496
Hypophloeus, 404
Hypoprepia, 668
Hypopteromalus, 981
Hyposoter, 955
Hypostena, 809
Hypothenemus, 518
Hyppa, 641
Hypselistes, 1047
Hypsopygia, 578
Hyptia, 985
Hyptiotes, 1034
Hypulus, 411
Hyssia, 656
Hysteroneura, 187
Hysterosia, 569

I

Ianassa, 616
Ibalia, 967
IBALIINAE, 967
Icerya, 193
Ichneumon, 921, 941
ICHNEUMONIDAE, 920
ICHNEUMONINAE, 920, 932
ICHNEUMONINI, 921, 941
ICHNEUMONOIDEA, 895
Ichneutes, 913
Ichneutidea, 913
ICHNEUTINAE, 912
Ichthyura, 613
Icius, 1071
Icterica, 853
Idana, 849
Idechthis, 965
Idiobates, 405
Idiocerus, 157
IDIOGASTRA, 895
Idiolispa, 931
Idioptera, 695
Idiopterus, 189
Idiostethus, 505
Idiotypa, 963
Ilisia, 692
Illinoia, 188
Ilnacora, 118
Ilybiosoma, 259
Ilybius, 259
Ilythea, 858
Immyrla, 582
Incisalia, 679
Incurvaria, 534
INCURVARIIDAE, 534
Inga, 546
Ingura, 633
Inostemma, 966
INSECTA, 11
Iodia, 649
Iphiaulax, 897
Iphiclides, 676
Iphthimus, 405
IPIDAE, 514
Ipimorpha, 636
IPS, 379, 519
Iron, 45
Ischalia, 338
Ischnaspis, 202
ISCHNOCERA, 64
Ischnodemus, 94
Ischnoglossa, 307
Ischnomyia, 864
Ischnorhynchus, 93
Ischnura, 48
ISCHYROPSALIDAE, 1074
Ischyrus, 383
Isdromas, 929
Iseropus, 942
Isia, 667
ISOBATIDAE, 1079
Isochaetes, 535
Isocorypha, 539
Isodontia, 1011
Isodyctium, 888
Isogenus, 57
Isohydnocera, 329
Isolomalus, 317
ISOMETOPIDAE, 135
Isomira, 399
Isoperla, 58
ISOPTERA, 38
Isorhipis, 353
Isosoma, 977
Isotoma, 14
ISOTOMINAE, 13
Isotomurus, 14
ISSINAE, 178
Isturgia, 598
Itame, 600
Itamoplex, 931
Ithycerus, 487
Ithytrichia, 523
Itonida, 737
ITONIDIDAE, 714
ITONIDIDINAE, 716
ITONIDIDINARIAE, 730
Itoplectis, 937
Itycorsia, 872

J

Jalysus, 92
Janetiella, 728
Janus, 873
JASSINAE, 163
Jassus, 172
Joannisia, 715
Johannsenomyia, 708
Johnsonomyia, 716, 753
Jonthonota, 484
JOPPINAE, 920
JOPPINI, 921
Judolia, 439
JUGATAE, 534
JULIDAE, 1079
Junonia, 686
Jurinia, 821

K

Kaliofenusa, 886
Karschomyia, 733
Kelisia, 180
Kermes, 194
Kingia, 836
Kleidotoma, 968
Kolla, 160
Konisomyia, 715
Kophosoma, 774
Kronomyia, 716

L

Labena, 938
LABENINI, 938
Labia, 203
Labidia, 884
Labidomera, 469
LABIDURINAE, 202
LABIINAE, 203
Labops, 118
Labrorychus, 953
Lacchoprosopa, 825
Laccobius, 269
Laccocera, 181
LACCOPHILINAE, 254
Laccophilus, 254
Lachesilla, 61
LACHNINI, 184
Lachnocrepis, 243
Lachnus, 184
Lacon, 342

Lacosoma, 585
LACOSOMIDAE, 585
Ladona, 54
Laemophloeus, 381
Laemosaccus, 503
Laertias, 676
Laetilia, 583
Lagium, 882
LAGRIIDAE, 407
Lampra, 659
Lampracanthia, 138
Lampria, 768
Lampronota, 933
LAMPYRIDAE, 320
Languria, 383
LANGURIINAE, 383
Lanthus, 50
Laodamia, 582
Lapara, 610
Laphria, 768
LAPHRIINAE, 767
Laphygma, 640
Laphystia, 765
LARENTIINAE, 592
Largidea, 115
Laricobius, 384
Larinia, 1055
Lariophagus, 981
Larra, 1009
LARRINAE, 1008
LARRINI, 1009
Larropsis, 1009
Lasconotus, 388
Lascoria, 621
LASIOCAMPIDAE, 587
Lasiochilus, 109
Lasioderma, 414
Lasioglossum, 1025
Lasiomastix, 695
Lasiopogon, 766
Lasioptera, 722
LASIOPTERARIAE, 722
Lasiopteryx, 722
Lasiosina, 860
Lasiosoma, 742
Lasius, 1000
Laspeyresia, 558
LATHRIDIIDAE, 388
Lathridius, 389
Lathrobiella, 286
Lathrobioma, 285
Lathrobium, 285
Lathrolepta, 286
Lathrotaxis, 286
Lathys, 1035
Latrodectus, 1039
Lauxania, 847
Lauxaniella, 847
Laverna, 552
LAVERNIDAE, 552
Lebia, 236
Lecanium, 197
Leia, 743
Leiobunum, 1075
Leiocnemis, 226
Leiodes, 274
Leiophron, 912
Leiopus, 452
Leironotus, 226
Lema, 462
Leperisinus, 516
Lephthyphantes, 1048
Lepidocyrtus, 16
Lepidophora, 763
Lepidophorus, 494
Lepidopsallus, 113
LEPIDOPSOCIDAE, 62
LEPIDOPTERA, 532
Lepidosaphes, 202
Lepidostoma, 531
LEPIDOSTOMATINAE, 531
Lepisesia, 613
Lepisma, 11
LEPISMIDAE, 11
LEPISMINAE, 11
Leptacinodes, 289
Leptacinus, 289
Leptacis, 966
LEPTIDAE, 758
Leptinotarsa, 470
Leptis, 759
Leptobamona, 299
Leptobyrsa, 102
Leptocella, 527
Leptocera, 844
LEPTOCERIDAE, 527
Leptocerus, 527
Leptogaster, 765
LEPTOGASTERINAE, 765
Leptoglossus, 86
Leptolinus, 289
Leptomorphus, 743
Leptopeza, 786
Leptophlebia, 43
Leptophylax, 530
Leptopsylla, 869
Leptopygus, 958
Leptoschema, 344
Leptostylus, 451
Leptosyna, 716
Leptothorax, 998
Leptothrips, 70
Leptotrachelus, 235
Leptoypha, 102
Leptura, 441
Lepturges, 452
Lepturoides, 345
Leptusa, 299
Lepyronia, 146
Lepyrus, 495
Lerema, 675
Leria, 843
Lerodea, 675
Leskiomima, 810
Leskiopalpus, 810
Lestes, 46
Lestodiplosis, 736
Lestremia, 714
LESTREMINAE, 714
LESTREMINARIAE, 714
Lethocerus, 140
Letznerella, 518
Leucania, 654
Leucaspis, 199
Leucauge, 1055
Leucobrephos, 589
Leuconycta, 644
Leucoparyphus, 296
Leucopelmonus, 882
Leucophenga, 862
Leucopis, 865
Leucopomyia, 865
Leucorhinia, 56
Leucospis, 976
Leucostola, 774
Leucozona, 795
Leuctra, 59
Lexis, 669
Liancalus, 777
Libellula, 54
LIBELLULIDAE, 52
Liburnia, 181
Liburniella, 181
LIBYTHEINAE, 681
Lichenomima, 61
Lichenophanes, 415
Ligyrocoris, 96
Ligyrodes, 428
Ligyrus, 428
LIMNEBIINAE, 264
Limnebius, 264
LIMNEPHILIDAE, 528
Limnephilus, 529
Limnia, 846
LIMNICHINAE, 373
Limnichites, 373
Limnius, 367
Limnobaris, 505
Limnobia, 690
Limnophila, 695, 696
Limnophora, 834
LIMNOPHORINAE, 834
Limnoporus, 136
Limnospila, 835
Limochores, 673
Limonia, 690
LIMONIINAE, 689
LIMONIINI, 689
Limonius, 343
Limosina, 844
Limothrips, 67
Limulodes, 313
Lina, 472
Linnaemyia, 813
Linognathus, 73
Linotaenia, 1083
LINOTAENIIDAE, 1083
Linyphia, 1048
LINYPHIIDAE, 1042
Liocranum, 1062
Liogma, 698
Liosomaphis, 187
Liothrips, 70
LIPARIDAE, 617
Liparis, 618
Lipeurus, 66
Lipocosma, 572
Lipophleps, 693
LIPOSCELIDAE, 63
Liposcelis, 63
Lispa, 834
Lispidea, 808
LISPINAE, 834
Lispinus, 277
Lispocephala, 835
Lispoides, 834
Lissonota, 933
LISSONOTINI, 932
Lissorhoptrus, 498
Lissothrips, 71
Listrognathus, 932
Listronotus, 495
Litargus, 387
Lithacodes, 537
Lithacodia, 634
Lithina, 601
LITHOBIIDAE, 1081
LITHOBIOMORPHA, 1081
Lithobius, 1081
Lithocharis, 287
Lithocolletis, 542
Litholomia, 652

Lithomoia, 652
Lithophane, 651
LITHOSIIDAE, 668
Lithyphantes, 1039
Litolathra, 285
Litopyllus, 1038
Livia, 182
LIVIINAE, 182
Lixophaga, 809
Lixus, 503
Loberus, 385
Lobiopa, 378
Lobodiplosis, 732
Lobophora, 593
Lobopoda, 398
Lobopteromyia, 730
Loderus, 881
Lomamyia, 40
Lomanaltes, 619
Lonchaea, 848
LONCHAEIDAE, 848
Lonchoptera, 788
LONCHOPTERIDAE, 788
Longistigma, 184
Longitarsus, 480
Longurio, 699
Lopheros, 319
Lophocarenum, 1051
Lophodonta, 615
Lophoglossus, 224
Lophomma, 1049
Lophopompilus, 986
Lophoptilus, 552
LOPHYRIDAE, 877
LOPHYRINAE, 877
Lophyrus, 877
Lopidea, 118
Lopus, 113
Loricera, 210
Lorinota, 306
Loxandrus, 225
Loxocera, 855
Loxostege, 574
Loxostegopsis, 576
Loxotropa, 963
LUCANIDAE, 430
LUCANINAE, 430
Lucidota, 320
Lucilia, 828
Ludius, 345
Luperaltica, 479
Luperina, 645
Luperodes, 474
Lutomyia, 844
LYCAENIDAE, 678
Lycaenopsis, 681
LYCAOTINAE, 886
Lycia, 603
Lycidae, 319
Lycogaster, 960
Lycomorpha, 670
Lycoperdina, 390
Lycophotia, 660
Lycosa, 1066
LYCOSIDAE, 1066
LYCTIDAE, 416
LYCTOCORINAE, 109
Lyctocoris, 109
Lyctus, 416
Lydella, 816
LYGAEIDAE, 92
LYGAEINAE, 92
Lygaeus, 92
Lygidea, 126
Lygranthoecia, 664
Lygris, 593
Lygus, 127
Lymantor, 520
LYMANTRIIDAE, 617
LYMEXYLIDAE, 331
Lymnaecia, 552
LYONETIIDAE, 540
Lype, 526
Lyperopherus, 223
Lyperosia, 828
Lypha, 813
Lypsimena, 455
Lyroda, 1010
Lysiognatha, 920
LYSIOGNATHINAE, 920
LYSIOPETALIDAE, 1081
Lysiphlebus, 919
Lytogaster, 858
Lytrosis, 602
Lytta, 337

M

Macaria, 600
Macateeia, 836
MACHILIDAE, 11
Machilis, 11
Macratria, 340
Macremphytus, 879
Macrobasis, 337
MACROCENTRINAE, 913
Macrocentrus, 913
Macrocera, 741
MACROCERINAE, 741
Macrocoenosia, 836
Macrodactylus, 426
Macrolophus, 114
Macromeigenia, 813
Macromia, 52
Macronema, 525
MACRONEMATINAE, 525
Macronoctua, 646
Macronychus, 367
Macrophya, 882
Macropis, 1026
Macrops, 495
Macropsis, 158
Macrorchis, 835
Macrosargus, 751
Macrosiagon, 336
Macrosiphoniella, 188
Macrosiphum, 188
Macroteleia, 965
Macrotracheliella, 109
Macrotylus, 113
Macroxyela, 871
MACROXYELINAE, 871
Madarellus, 504
Madiza, 861
Maevia, 1071
Magdalis, 499
Magicicada, 144
Magusa, 648
MALACHIINAE, 326
Malachius, 326
Malacomyza, 42
Malacosoma, 588
Malezonotus, 98
Mallochiella, 865
MALLOPHAGA, 63
Mallophora, 770
Mallota, 800
Malthinus, 325
Malthodes, 325
Mamestra, 655, 657, 658
MAMESTRINAE, 654
Mangora, 1055
Manomera, 20
Mansonia, 704
MANTIDAE, 20
Mantis, 20
Mantispa, 39
MANTISPIDAE, 39
Mantura, 479
Marasmalus, 633
MARGARODINAE, 193
Marmara, 541
Marpissa, 1071
Martyringa, 544
Maruina, 707
Marumba, 611
Masicera, 816
Maso, 1049
Mastogenius, 365
Matsucoccus, 193
Matus, 259
Matuta, 659
Mauromyia, 807
Meadorus, 84
Mecomma, 119
MECOPTERA, 521
Mecynotarsus, 340
MEDETERINAE, 776
Medeterus, 776
Megachile, 1029
MEGACHILIDAE, 1028
Megalodacne, 384
Megalopyge, 535
MEGALOPYGIDAE, 535
Megalothrips, 72
Megalotomus, 87
Megamelanus, 180
Megamelus, 180
Megapenthes, 251
Megaplectes, 931
MEGAPROSOPIDAE, 821
Megarhyssa, 939
Megarthrus, 278
Megaselida, 789
Megastigmus, 975
Megastilicus, 288
Megastylus, 959
Megistias, 675
Megophthalma, 842
Melalopha, 613
Melanactes, 347
Melandrya, 409
MELANDRYIDAE, 408
Melanobracon, 896
Melanochaeta, 861
Melanochelia, 834
Melanolestes, 104
Melanolophia, 603
Melanomma, 620
Melanophila, 358
Melanophora, 823
Melanophrys, 812
Melanophthalma, 389
Melanoplus, 34
Melanoporphyria, 664
Melanorhopala, 102
Melanostoma, 794
Melanotus, 351
MELAPHINI, 191
Melaphis, 191
MELASIDAE, 352
Melasis, 352
Melba, 308

Meleoma, 41
Melieria, 850
Meligethes, 375
MELIGETHINAE, 375
Melina, 845
Melipotis, 625
Melissodes, 1027
Melissopus, 558
Melitara, 582
Melittia, 555
Melittomma, 331
Mellilla, 599
Mellinus, 1015
Meloe, 337
MELOIDAE, 336
MELOINAE, 336
MELOLONTHINAE, 422
Melophagus, 868
MELYRIDAE, 326
MELYRINAE, 327
MEMBRACIDAE, 147
MEMBRACINAE, 155
Memythrus, 555
Menecles, 82
Menesta, 547
Meniscus, 933
Menopon, 63
MENOPONIDAE, 63
Menopsimus, 639
Meoneura, 865
Meracantha, 407
MERACANTHINAE, 407
Merinus, 404
Merisus, 981
Merium, 444
MEROCORINAE, 86
Merocoris, 86
Merodon, 800
Merolonche, 641
Meromyza, 860
Meronera, 305
Merope, 522
Meroplius, 854
Meroptera, 582
MEROTHRIPIDAE, 69
Merothrips, 69
Merragata, 106
Merycomyia, 758
Mesamia, 164
Mesembrina, 828
Mesites, 512
Mesochorus, 959
Mesocyphona, 692
Mesogramma, 796
MESOLEIINA, 946
Mesoleius, 946
Mesoleptidea, 945
Mesoleptina, 946
MESOLEPTINI, 944
Mesoleptus, 928
Mesoleuca, 596
Mesomiris, 124
MESOPSOCIDAE, 62
MESOPSOCINAE, 62
Mesopsocus, 62
MESOSTENINI, 930
Mesostenus, 932
Mesothea, 591
Mesovelia, 107
MESOVELIIDAE, 107
Messa, 885
MESSINAE, 885
Meta, 1056
METACANTHINAE, 92
Metachaeta, 817
Metachroma, 468
Metacoelus, 951
Metacyrba, 1071
Metadiplosis, 736
Metalectra, 620
Metallus, 886
Metanema, 608
Metapelma, 980
Metaphidippus, 1071
Metaphyto, 813
Metaplagia, 811
Metapterus, 104
Metarranthis, 606
Metatropiphorus, 108
Metaxya, 303
METEORINAE, 916
Meteorus, 916
Metepeira, 1056
Methoca, 993
METHOCINAE, 993
Methypostena, 809
Metopia, 824
METOPIINI, 952
Metopius, 952
Metoponia, 635
Metoposarcophaga, 825
Metrea, 573
Metriocnemus, 711
Metriona, 484
Metrobates, 136
Metrocampa, 605
Metzneria, 551
Mezium, 412
Miarus, 503
Miastor, 716
Micaria, 1062
Micracanthia, 138
MICRACINAE, 517
Micracis, 517
Micrathena, 1056
Microbembex, 1018
Microbracon, 897
Microcara, 369
Microcentrum, 22
Microcentrus, 156
Microcerata, 714
Microchrysa, 752
Microcoelia, 644
Microdon, 791
Microdus, 911
Microedus, 279
Microgaster, 904
MICROGASTERINAE, 904
Microgoes, 451
Microlathra, 286
Micromaseus, 225
Micromus, 40
Microneta, 1049
MICROPEPLINAE, 277
Micropeplus, 277
MICROPEZIDAE, 853
Microphthalma, 821
Microphthirus, 74
Microphylellus, 110
Microplectron, 948
Microplitis, 905
Microprosopa, 842
MICROPTERYGIDAE, 534
Micropteryx, 534
Microrhagus, 353
Microrhopala, 483
Microsania, 790
Microscapha, 409
Microstelis, 1030
Microsynamma, 113
Microtonus, 411
Microvelia, 136
Microweisea, 393
Micrutalis, 149
Milesia, 802
Milichiella, 864
MILICHIIDAE, 864
MILTOGRAMMINAE, 824
Mimesa, 1013
MIMETIDAE, 1058
Mimetus, 1058
Mimoceps, 123
MINDARINAE, 189
Mindarus, 189
Minettia, 848
Mineus, 84
Minthea, 416
Minyriolus, 1050
Miogryllus, 26
Miota, 963
Mirax, 904
MIRIDAE, 110
MIRINAE, 123
Miris, 124
Miscodera, 241
Misogada, 616
Misumena, 1058
Misumenoides, 1059
Misumenops, 1059
Mitopus, 1074
Mitoura, 679
Mixogaster, 792
Mochlonyx, 702
Mochlosoma, 821
Molamba, 277
Molanna, 526
MOLANNIDAE, 526
MOLANNINAE, 526
Molophilus, 692
Molorchus, 443
Momophana, 653
Monachulus, 464
Monalocoris, 115
Monardia, 715
Monarthropalpus, 735
Monecophora, 145
Monellia, 185
Monima, 655
Monobia, 1004
Monoblastus, 948
Monochamus, 449
Monochrysis, 991
Monoclona, 741
Monocrepidius, 343
Monoctenus, 878
Monodes, 639
Monodontomerus, 975
Monoferonia, 222
Monomorium, 996
Mononychus, 506
Monophadnus, 887
MONOPHLEBINAE, 193
Monophylla, 327
Monopis, 538
Monorhipidia, 690
Monosoma, 880
Monotoma, 380
MONOTOMIDAE, 380
MONOTOMINAE, 380
Monoxia, 474
Monumetha, 1029
Moodna, 584

Mordella, 333
MORDELLIDAE, 332
Mordellistena, 333
Mordwilkoja, 190
Morellia, 829
Mormidea, 80
Mormomyia, 531
Mormoniella, 981
Morrisonia, 655
Mumetopia, 864
Murgantia, 82
Musca, 828
MUSCIDAE, 828
Muscina, 829
MUSCINAE, 828
Mutilla, 994
MUTILLIDAE, 993
Myas, 221
Mycetaea, 390
MYCETAEIDAE, 390
Mycetina, 391
Mycetobia, 689
MYCETOBIINAE, 689
Mycetochara, 400
MYCETOPHAGIDAE, 386
Mycetophagus, 386
Mycetophila, 746
MYCETOPHILIDAE, 740
MYCETOPHILINAE, 743
Mycetoporus, 298
Mycodiplosis, 733
Mycodrosophila, 862
Mycomya, 742
Mycothera, 746
Mycterophora, 620
Mycterus, 412
Mydaea, 831
MYDAEINAE, 831
MYDAIDAE, 765
Mydas, 765
Myelois, 581
Myiocera, 822
Myiolepta, 793
Myiospila, 829
MYLABRIDAE, 484
Mylabris, 484
Myllaena, 298
MYMARIDAE, 984
Myndus, 177
Myobiopsis, 810
Myodocha, 96
Myodopsylla, 869
Myopa, 804
MYOPSOCIDAE, 61
MYOPSOCINAE, 61
MYRIENTOMATA, 1083
Myrlaea, 582
Myrmarachne, 1071
Myrmecina, 996
Myrmecomyia, 849
Myrmecothea, 849
Myrmedonia, 301
Myrmeleon, 41
MYRMELEONIDAE, 41
Myrmica, 997
MYRMICINAE, 996
Myrmosa, 993
MYRMOSINAE, 993
Myrsidea, 63
Myrsina, 816
Mysmena, 1040
Mystacides, 527
Mystaxus, 410
Mystrophora, 522
Myzine, 992
Myzocallis, 185
Myzus, 189

N

NABIDAE, 107
Nabis, 107
Nacerda, 332
Nacophora, 604
Nadabius, 1082
Nadata, 615
Naemia, 395
NAEOGEIDAE, 106
Nampabius, 1082
Nannia, 593
Nannopompilus, 988
Nannothemis, 55
Nanosella, 312
Napaea, 858
Napomyza, 867
Nasiaeschna, 52
Natada, 536
NAUCORIDAE, 139
Nausibius, 381
Neaera, 808
Neanura, 13
NEANURINAE, 13
Neaspilota, 852
Neatus, 406
Nebria, 211
Necrobia, 330
Necrophilus, 272
Necrophorus, 270
Necydalis, 443
Nehalennia, 48
Neichnea, 330
Neides, 91
NEIDIDAE, 91
NEIDINAE, 91
Neleucania, 654
Neliopisthus, 944
NEMASTOMATIDAE, 1074
NEMATINAE, 890
Nematinus, 893
Nematocampa, 606
Nematodes, 354
Nematolinus, 289
Nematoproctus, 774
Nematus, 893
Nemeritis, 965
Nemobius, 26
Nemognatha, 338
Nemopoda, 854
Nemoria, 590
Nemorilla, 814
Nemotelus, 753
Nemoura, 59
NEMOURIDAE, 59
Neoascia, 797
Neobisnius, 290
Neoborus, 125
Neocatocha, 715
Neocladura, 694
Neoclytus, 447
Neoconocephalus, 22
Neodiprion, 878
Neoempheria, 742
Neofischeria, 818
Neoformica, 1002
Neofoxia, 1013
Neoglaphyroptera, 743
Neogreeneia, 953
Neohaematopinus, 74
Neohylemyia, 837
Neolasioptera, 724
Neolecanium, 197
Neoleria, 843
Neolimnophila, 694
Neomysia, 398
Neon, 1071
NEONEURINAE, 903
Neonympha, 682
Neopachygaster, 753
Neoperla, 58
Neophylax, 530
Neopogon, 767
Neoprociphilus, 191
Neopsylla, 869
Neopyrochroa, 339
Neosciara, 747
Neoscona, 1056
Neotettix, 37
Neothomasia, 186
Neothrips, 70
Neotomostethus, 888
Neotrichia, 523
Neottiglossa, 82
Neoxabea, 28
Nepa, 140
Nephanes, 313
Nephelodes, 656
Nephopteryx, 582
Nephrocerus, 791
Nephrotoma, 699
NEPIDAE, 140
Nepticula, 535
NEPTICULIDAE, 535
Neptunimyia, 714
Nepytia, 602
Nerice, 615
Nesticus, 1056
Neureclipsis, 525
Neurigona, 775
NEURIGONINAE, 775
Neurocolpus, 132
Neurocordulia, 52
Neuroctena, 845
Neuroctenus, 91
Neuromyia, 722
Neuronia, 528
NEUROPTERA, 38
Neuroterus, 969
Neurothrips, 72
Neurotoma, 872
Nicagus, 432
Nicentrus, 505
Nicocles, 767
Nigetia, 669
Nionia, 163
Nisaxis, 309
Niteliopsis, 1009
Nitidula, 376
NITIDULIDAE, 374
NITIDULINAE, 376
Noctua, 661
NOCTUIDAE, 618
Noctuocoris, 121
Nodonota, 466
Nola, 669
NOLIDAE, 669
Nomada, 1026
Nomaretus, 207
Nomiades, 681
Nomius, 214
Nomophila, 574
Nonagria, 635
Nopoiulus, 1079
Norma, 560

Noserus, 901
NOSODENDRINAE, 372
Nosodendron, 372
Notaris, 497
NOTERINAE, 254
Nothodes, 344
Nothosympycnus, 775
Notiophilus, 210
Notiphila, 858
NOTIPHILINAE, 857
Notodonta, 614
NOTODONTIDAE, 613
Notogonidea, 1009
Notolophus, 617
Notonaulax, 861
Notonecta, 138
NOTONECTIDAE, 138
NOTONECTINAE, 138
NOTOPYGINA, 945
Notopygus, 945
NOTOTRACHINI, 953
Nototrachys, 953
Notoxus, 340
Notozus, 990
Nudobius, 288
Numeria, 604
Nusa, 768
Nycteola, 632
NYCTEOLINAE, 632
Nyctiophylax, 525
Nyctobia, 592
Nylanderia, 1000
NYMPHALIDAE, 681
NYMPHALINAE, 683
Nymphopsocus, 62
Nymphula, 577
NYMPHULINAE, 577
Nysius, 93
Nysson, 1016
NYSSONINI, 1014

O

Oberea, 456
Obolodiplosis, 737
Obrium, 436
Occemyia, 804
Ochria, 638
Ochrosidia, 427
OCHTERIDAE, 141
Ochterus, 141
Ochthebius, 264
Ochthera, 859
Ochtheroidea, 856
Ochthiphila, 865
OCHTHIPHILIDAE, 865
Ocnerostoma, 554
Octotemnus, 417
Ocydromia, 786
Ocyptamus, 794
Ocypterosoma, 807
Ocypus, 293
Odiellus, 1074
Odinia, 865
ODONATA, 45
Odontaeus, 421
Odontalictus, 1025
Odontaulacus, 960
Odontobracon, 900
ODONTOCERIDAE, 526
Odontocorynus, 505
Odontodiplosis, 738
ODONTOMERINI, 940
Odontomerus, 940
Odontomyia, 752
Odontophytes, 871
Odontosia, 614
ODONTOTARSINAE, 76
Odontotipula, 700
Odynerus, 1005
Oecanthus, 27
Oecetis, 527
Oeciacus, 108
Oecleus, 177
Œcophora, 546
ŒCOPHORIDAE, 544
Oecothea, 843
Oedalea, 785
Oedancala, 95
Oedaspis, 852
Oedematocera, 809
OEDEMERIDAE, 332
OEDEMERINAE, 332
Oedionychis, 475
Oedostethus, 347
Oedothorax, 1050
Oeme, 434
OENOCHROMINAE, 590
Oestodes, 348
ŒSTRIDAE, 804
Oestrohilarella, 824
Œstrus, 804
Ogcodes, 761
Ogdoconta, 636
Oidaematophorus, 585
Oidematops, 845
Okanagana, 145
Oleisoprister, 960
Olemira, 531
Olene, 618
Olesicampe, 965
Olethreutes, 563
Olfersia, 868
Oliarus, 177
Olibrus, 391
Oligarces, 716
Oligia, 639, 646
Oligomerus, 413
Oligoria, 675
Oligota, 299
OLIGOTROPHIARIAE, 727
Oligotrophus, 728
Olina, 845
Olisthaerus, 278
Olisthopus, 235
Olla, 397
Olochrysis, 991
Olophrum, 279
OMALIINI, 278
Omalium, 279
Omalus, 990
Omaseus, 224
Omethes, 322
Ommatius, 769
Ommatostola, 635
OMOPHLINAE, 400
Omophron, 252
OMOPHRONIDAE, 252
Omosita, 376
Oncerotrachelus, 104
Oncideres, 455
Oncocnemis, 653
Oncodes, 761
Oncometopia, 160
Oncopeltus, 92
Oncopsis, 159
Oneida, 580
Onthophagus, 418
Onthophilus, 318
Onychagrotis, 661
ONYCHIURINAE, 13
Onychiurus, 13
Onychobaris, 504
Onychylis, 498
Oodes, 244
Ooencyrtus, 979
OONOPIDAE, 1036
Oosternum, 270
OPATRINAE, 401
Opatrinus, 401
Opheltes, 946
Ophiderma, 154
Ophiogomphus, 49
Ophion, 952
OPHIONINAE, 952
OPHIONINI, 952
Ophistomis, 442
Ophyiulus, 1079
Ophyra, 832
OPIINAE, 914
Opilio, 1075
OPILIONES, 1074
Opisthacantha, 965
Opistheuria, 125
Opistholoba, 745
Opius, 914
Oporinia, 595
Opostega, 540
OPOSTEGIDAE, 540
Oppiopsis, 824
Opresus, 276
Opsebius, 761
Opsidia, 824
Opsodexia, 823
Orchelimum, 23
Orchesella, 16
Orchesia, 409
Orchestes, 502
Orchestina, 1036
Orectoderus, 114
Oreogeton, 787
Oreta, 589
Orgilus, 912
Orgyia, 617
Orius, 109
Ormenis, 178
Ormia, 810
Ormiscus, 485
Ormosia, 691
Ormyrus, 975
Orneodes, 585
ORNEODIDAE, 585
Ornithobius, 65
Ornithoica, 868
Ornithomyia, 868
Ornithoponus, 868
Ornix, 541
Oropeza, 698
OROPHIINAE, 417
Orphilus, 372
Orphnephila, 714
ORPHNEPHILIDAE, 714
Orphulella, 29
Orsodacne, 460
ORSODACNINAE, 460
ORTALIDAE, 849
Orthachaeta, 842
Orthaea, 97
Orthaltica, 479
Orthezia, 194
ORTHEZIINAE, 194
ORTHOCENTRINI, 950
Orthocephalus, 118

Orthoceratium, 777
Orthocis, 416
Orthocladius, 710
Orthodes, 656
Orthofidonia, 598
Orthogonalos, 960
Ortholomus, 92
Orthomorpha, 1080
Orthonama, 595
Orthopelma, 958
ORTHOPERIDAE, 276
Orthoperus, 276
Orthopleura, 330
ORTHOPTERA, 17
Orthosia, 649, 655
Orthotomicus, 520
Orthotrichia, 523
ORTHOTYLINAE, 117
Orthotylus, 120
ORYSSIDAE, 895
Oryssus, 895
Oryzaephilus, 380
Oscinis, 861
Oscinosoma, 861
Osmia, 1030
Osmoderma, 429
Osphya, 412
Ostoma, 374
OSTOMIDAE, 373
Otidocephalus, 499
Otiocerus, 179
OTIORHYNCHINAE, 490
Otiorhynchus, 492
Otlophorus, 947
Otocryptops, 1082
OXYBELINAE, 1019
OXYBELINI, 1021
Oxybelus, 1021
OXYCARENINAE, 95
Oxycera, 753
Oxycilla, 620
Oxycnemus, 378
Oxyethira, 523
Oxygonus, 348
Oxyomus, 420
Oxyopes, 1070
OXYOPIDAE, 1070
Oxypleurites, 1078
Oxypoda, 307
OXYPORINAE, 295
Oxyporus, 295
Oxyptila, 1059
Oxyptilus, 584
Oxystoglossa, 1025
OXYTELINAE, 277
OXYTELINI, 280
Oxytelus, 280
OXYTORINA, 944
Ozodania, 669
Ozophora, 97

P

Pachnobia, 661
Pachybrachys, 463
Pachycerota, 308
Pachydiplax, 56
Pachygaster, 753
Pachygnatha, 1056
PACHYGRONTHINAE, 95
Pachylobius, 496
Pachymenes, 1004
Pachymeria, 786
Pachymerium, 1083
Pachynematus, 893
Pachyneuron, 981
Pachyophthalmus, 825
Pachyphanes, 497
Pachyprotasis, 882
Pachypsylla, 183
Pachyschelus, 364
Pachysphinx, 611
Pachystethus, 426
Pachystilicus, 288
Pachyta, 438
Pachytychius, 497
Packardia, 537
Paectes, 633
PAEDERINAE, 284
Paederus, 285
Pagaronia, 161
Pagasa, 107
Paidisca, 1040
Paitobius, 1082
Palaeoplatyura, 740
Palaminus, 284
Paleacrita, 604
Paleoplusia, 626
Pallodes, 379
Palloptera, 849
PALLOPTERIDAE, 849
Palmacorixa, 142
Palmodes, 1011
Palorus, 403
PALPATORES, 1074
Palpomyia, 708
Palthis, 621
Pammegischia, 961
Pamphila, 672
PAMPHILIIDAE, 872
PAMPHILINAE, 672
Pamphilius, 872
Panagaeus, 213
Panchlora, 20
Panchrysia, 626
Pancota, 304
Pandeleteius, 491
Pandemis, 569
Pangaeus, 77
Pangonia, 754
Pangrapta, 620
PANISCINI, 948
Paniscus, 948
Panopoda, 625
Panorpa, 521
PANORPIDAE, 521
Panscopus, 491
Pantala, 56
Panthea, 628
PANTHEINAE, 627
Pantograpta, 573
Pantomorus, 492
Panurginus, 1027
Paonias, 611
Papaipema, 636
Papilio, 676
PAPILIONIDAE, 676
Parabates, 949
Parabolocratus, 163
Paracalocoris, 131
Parachaeta, 816
Paracharactus, 888
Paraclemensia, 534
Paraclius, 783
Paracoelidea, 172
Paracymus, 267
Paradidyma, 817
Paradionaea, 810
Paradiplosis, 737
Paragrotis, 662
Paragus, 793
Parahypenodes, 623
PARAJULIDAE, 1079
Parajulus, 1079
Paralechia, 549
Paralesteva, 279
Paralimna, 858
Paralispa, 572
Parallelia, 629
Parallelina, 440
Parallelodiplosis, 737
Parallelomma, 841
Parallelostethus, 348
Paramellinus, 1015
Paramesius, 963
Parancistrocerus, 1005
Parandra, 432
Paranomalon, 954
Paraphasia, 806
Paraphia, 602
Paraphidippus, 1072
Paraphorocera, 816
Paraprosena, 821
Parasa, 536
Parasetigena, 815
Parasierola, 1004
Paraspiniphora, 788
Parastichtis, 646, 649
Parataxonus, 880
Paratenetus, 406
Paratenodera, 20
Parateras, 970
Paratettix, 37
Paratinia, 742
Paratrytone, 674
Paraxenetus, 134
Parcoblatta, 18
Pardalophora, 31
Pardosa, 1068
Parectecephala, 860
Parectopa, 542
Paregle, 840
Parerigone, 1050
Parexorista, 814
Parharmonia, 556
Paria, 468
Parlatoria, 202
Parnopes, 990
Paromalus, 317
Parorgyia, 618
Parornix, 541
Paroxya, 34
Parthenicus, 117
Parthenothrips, 67
Parwinnertzia, 717
Parydra, 859
Pasimachus, 211
PASSALIDAE, 432
Passaloecus, 1014
Passalus, 432
Patara, 179
Patelloa, 815
Patrobus, 220
PAUROPSYLLINAE, 182
Paururus, 874
Peckhamia, 1072
Pedanostethus, 1040
Pedicella, 751
Pedicia, 697
PEDICIINI, 697
PEDICULIDAE, 73
Pediculus, 73
PEDILIDAE, 339

Pedilus, 339
Pedinaspis, 986
PEDININAE, 401
Pediopsis, 158
Pegomyia, 840
Pelastoneurus, 783
PELECINIDAE, 967
Pelecinus, 967
Pelecopsis, 1051
Pelecotoma, 336
Pelenomus, 508
Peleteria, 819
Pelidnota, 427
Pelina, 858
Pellenes, 1072
Pelocoris, 139
Pelomyia, 864
Pelopaeus, 1012
Peloropeodes, 776
Peltodytes, 253
Peltoperla, 58
PEMPHIGINI, 190
Pemphigus, 190
Pemphredon, 1014
PEMPHREDONINI, 1013
Pentacora, 137
Pentacricia, 835
Pentagramma, 182
Pentaphyllus, 403
Pentarthrinus, 512
PENTATOMIDAE, 78
PENTATOMINAE, 78
Penthe, 408
Penthoptera, 697
Penthimia, 162
Peoria, 584
Peponapis, 1028
PEPSINI, 988
Percnoptilota, 595
Percosia, 226
Perdita, 1027
Peribalus, 79
Periclista, 888
Periclistus, 974
Pericoma, 706
Pericompsus, 218
Peridroma, 660
Perigaster, 508
Perigea, 647
Perigenes, 96
PERILAMPIDAE, 976
Perilampus, 976
PERILISSINA, 944
Perilitus, 915
Perillus, 84
Perimede, 552
Periphyllus, 186
Periplaneta, 19
PERIPSOCINAE, 61
Peripsocus, 61
Perispasta, 574
Perissopterus, 982
Perithemis, 55
Perithous, 943
Peritrechus, 98
Perizoma, 595
Perla, 57
Perlesta, 58
PERLIDAE, 57
Perlinella, 58
Perlodes, 57
Pero, 608
Peronea, 566
PEROTHOPINAE, 354
Perothops, 354
Petalium, 414
PEZOMACHINI, 930
Pezomachus, 930
Pezoporus, 928
Phaecasiophora, 564
Phaedon, 471
Phaenonotum, 269
Phaenopria, 963
Phaeocyma, 628
Phaeogenes, 927
PHAEOGENINI, 927
PHALACRIDAE, 391
Phalacrocera, 698
Phalacrotophora, 789
Phalacrus, 391
Phalaenophana, 621
Phalaenostola, 622
PHALANGIIDAE, 1074
Phalangium, 1075
Phaleria, 401
PHALERIINAE, 401
Phalonia, 569
PHALONIIDAE, 569
Phanaeus, 418
Phanerotoma, 903
Phanopsyche, 531
Phaonia, 830
PHAONIINAE, 829
Pharmacis, 569
Phasgonophora, 976
Phasia, 806
PHASIIDAE, 805
Phasiops, 822
PHASMIDAE, 20
Pheletes, 344
Phelister, 317
Phellopsis, 401
Phenacoccus, 195
Phengodes, 322
PHENGODIDAE, 322
Phenolia, 378
Pheosia, 615
Pherbellia, 845
Phidippus, 1072
Phigalia, 604
Philaenus, 146
PHILANTHINI, 1016
Philanthus, 1016
Philaronia, 146
Philereme, 595
Philobia, 599
Philodes, 250
Philodromus, 1059
Philometra, 622
Philonix, 971
Philonome, 540
Philonthus, 290
Philophuga, 239
PHILOPOTAMIDAE, 524
Philopotamus, 524
PHILOPTERIDAE, 64
PHILOPTERINAE, 64
Philopterus, 64
Philosamia, 587
Philotarsus, 62
Philotermes, 301
Philothermus, 388
Philygria, 857
Philygriola, 857
Phiprosopus, 621
PHLAEOTHRIPIDAE, 69
PHLAEOTHRIPOIDEA, 69
Phlaeothrips, 71
Phlegethontius, 609
Phlegon, 354
Phlegyas, 95
Phlepsius, 169
Phloeobiothrips, 72
Phloeonomus, 279
Phloeophagus, 512
Phloeopora, 308
Phloeotrya, 411
Phloesinus, 516
Phlyctaenia, 574
Phoberia, 625
Phobetron, 535
PHOLCIDAE, 1038
Pholcus, 1038
Pholeomyia, 864
Pholisora, 671
Pholus, 612
Phora, 790
Phorantha, 806
Phoranthella, 806
Phorbia, 838
Phorichaeta, 818
PHORIDAE, 788
Phormia, 827
PHORMIINAE, 827
Phorocera, 815
Phorodon, 189
Phortica, 862
Photinus, 321
Photuris, 322
Phragmatobia, 667
Phronia, 745
Phrurolithus, 1062
Phryganea, 528
PHRYGANEIDAE, 528
Phrynolydella, 816
Phryxe, 814
Phthinia, 744
Phthiria, 763
Phthirius, 73
Phthorophloeus, 515
Phycanassa, 674
Phyciodes, 684
PHYCITINAE, 581
Phygadeuon, 928, 929
PHYGADEUONINI, 928
Phylacteropoda, 808
Phylidorea, 695
PHYLINAE, 110
Phyllaphis, 184
Phyllecthrus, 475
Phyllobaenus, 330
Phyllobius, 493
Phyllobrotica, 474
Phyllocnistis, 540
Phyllocoptes, 1078
PHYLLOCOPTINAE, 1078
Phyllodecta, 472
Phyllodinus, 181
Phyllodrepa, 278
Phyllogaster, 835
Phyllomyza, 865
Phyllophaga, 424
Phylloscelis, 176
Phylloscyrtus, 28
PHYLLOTOMINAE, 885
Phyllotreta, 481
Phylloxera, 192
PHYLLOXERIDAE, 192
PHYLLOXERINAE, 192
Phylocentropus, 525
Phymaphora, 390
Phymata, 103

PHYMATIDAE, 103
PHYMATOCERINAE, 888
Phymatodes, 445
Phyrdenus, 509
Physatocheila, 102
Physocephala, 803
Physocnemum, 444
Physokermes, 198
Physonota, 483
Physostegania, 599
Phytodecta, 472
PHYTODIETINI, 935
Phytodietus, 935
Phytometra, 620
Phytomyza, 867
Phytonomus, 494
Phytophaga, 727
Phyxelis, 490
Piazorhinus, 502
PIERIDAE, 677
Pieris, 677
Piesma, 99
PIESMIDAE, 99
PIESTINI, 277
Piezocorynus, 486
Pigritia, 551
Pilaria, 696
Pilocrocis, 573
Pilophorus, 122
Pilopius, 311
Pimpla, 936, 942
PIMPLINAE, 932
PIMPLINI, 936, 941
Pinacodera, 239
Pinipestis, 581
Pinnaspis, 199
Pinophilus, 284
Pinotus, 418
Piophila, 855
PIOPHILIDAE, 855
Pipiza, 792
Pipizella, 792
PIPUNCULIDAE, 791
Pipunculus, 791
Pirata, 1069
PIRATINAE, 104
PISAURIDAE, 1065
Pisaurina, 1066
Pisenus, 408
Pissodes, 495
Pissonotus, 180
Pithanus, 123
Pityobius, 343
Pityogenes, 519
Pityokteines, 519
Pityophthorus, 518
Placopterus, 328
Placusa, 299
Plagiodera, 471
Plagiomimicus, 635
Plagiprospherysa, 811
Plagodis, 606
Plastanoxus, 1004
Platagrotis, 660
Plateros, 320
Plathemis, 54
Plathypena, 619
Platidius, 221
Platycampus, 890
Platycentropus, 530
Platycerus, 431
Platychirus, 794
Platycnema, 790
Platycoenosia, 833
Platydema, 403
Platygaster, 966
PLATYGASTERIDAE, 965
Platylabus, 927
Platylygus, 127
Platymetopius, 165
Platynus, 230
Platypalpus, 783
Platypeza, 790
PLATYPEZIDAE, 790
Platypezoides, 790
Platyphylax, 529
PLATYPODIDAE, 514
Platyptilia, 584
Platypus, 514
Platysenta, 640
Platysoma, 316
Platystethus, 281
PLATYSTOMIDAE, 485
Platytylellus, 125
Platyura, 741
Plea, 139
Plebeius, 681
Plecia, 748
PLECOPTERA, 57
PLECTISCINI, 959
Plectocryptus, 929
Plectops, 808
Plectrocnemia, 525
Plectromyia, 698
Plegaderus, 318
PLEINAE, 139
Plenoculus, 1010
Pleonectyptera, 620
Plesiocis, 417
Pleuroneura, 871
Pleurophorus, 421
Pleuroprucha, 592
Pleurotropis, 983
Plinthisus, 98
Plocetes, 498
Plochionus, 239
Plodia, 584
PLOIARIINAE, 103
Ploiariola, 103
Ploiophora, 551
Plusia, 626
PLUSIINAE, 626
Plusiodonta, 624
Plutella, 553
Pnyxia, 747
Poanes, 674
Poaphila, 628
Pocadicnemis, 1051
Pocadius, 378
Podabrus, 323
Podalonia, 1012
Podapion, 490
Podisma, 34
Podisus, 85
Podops, 78
Podosesia, 555
Podura, 12
PODURIDAE, 12
PODURINAE, 12
Poecilocapsus, 130
Poecilochroa, 1038
Poecilographa, 846
Poecilonota, 357
Poecilothrips, 72
Poecilus, 224
Poemenia, 940
Pogonocherus, 454
Pogonomyia, 831
Pogonomyza, 839
Pogonosoma, 768
Polemius, 325
Polia, 657
Polidea, 810
Polistes, 1006
POLISTINAE, 1006
Polistiphaga, 932
Polites, 673
Pollenia, 828
POLLENIINAE, 828
Polloccia, 572
Polyaenus, 932
Polybates, 886
Polyblastina, 947
Polyblastus, 947
POLYCENTROPIDAE, 525
POLYCENTROPINAE, 525
Polycentropus, 525
Polychrosis, 565
Polycinetis, 945
POLYDESMIDAE, 1080
Polydesmus, 1080
Polydontomyia, 800
Polydrusus, 491
Polyergus, 1003
Polygonia, 685
Polygrammate, 644
Polygraphus, 515
Polylepta, 742
Polymerus, 130
Polymitarcys, 44
Polymoechus, 427
Polynema, 984
Polyphylla, 425
Polyplax, 74
POLYPSOCINAE, 61
Polypsocus, 61
Polyselandria, 889
Polysphincta, 937
POLYSPHINCTINI, 937
Polystoechotes, 40
POLYSTOECHOTIDAE, 40
Polytaxonus, 879
Polyterus, 946
Polythichophora, 857
Polytribax, 929
POLYXENIDAE, 1081
Polyxenus, 1081
POLYZONIIDAE, 1081
Polyzonium, 1081
Pomphopoea, 336
POMPILIDAE, 985
POMPILINAE, 985
POMPILINI, 985
Pompiloides, 987
Pompilus, 986
Ponera, 995
PONERINAE, 995
Pontania, 890
Pontia, 677
Popillia, 427
Porcinolus, 373
PORIZONINI, 958
Porosagrotis, 661, 663
Porphyrops, 774
Porricondyla, 718
PORRICONDYLARIAE, 716
Porthetria, 618
Postleria, 843
Potamanthus, 45
Poultonella, 1073
Praon, 918
Prasocuris, 469

Prateus, 406
Precis, 686
Prenes, 675
Prenolepis, 999
Priocera, 327
Priocnemis, 989
Priocycla, 608
Prionapteryx, 578
Prionellus, 715
PRIONINAE, 432
Prionocera, 699
Prionochaeta, 272
Prionocyphon, 369
Prionolabis, 696
Prionomerus, 502
Prionony x, 1011
Prionota, 715
Prionoxystus, 570
Prionus, 433
Priophorus, 890
Pristaulacus, 960
Pristiphora, 894
Pristocera, 1004
Pristodactyla, 230
Pristomerus, 957
Probezzia, 709
Proboscimyia, 841
Procecidochares, 852
Proceratium, 996
Prochelostoma, 1030
Prochyliza, 855
PROCIPHILINI, 191
Prociphilus, 191
Procladius, 710
Proctacanthus, 769
Proctorus, 498
Proctotrupes, 964
PROCTOTRUPIDAE, 964
PROCTOTRUPOIDEA, 961
Prodecatoma, 978
Prodenia, 641
Prodiamesa, 710
Prodiplosis, 743
Profenusa, 885
Prokelisia, 180
Prolimacodes, 536
Promachus, 770
Promethes, 950
Prometopia, 378
Prosacantha, 964
Prosalpia, 837
Proserpinus, 613
Prosimulium, 749
Prosinella, 824
Prosminthurus, 16
PROSOPIDAE, 1021
Prosopis, 1022
Prosopotheca, 1051
Prospaltella, 982
PROSTEMMINAE, 107
Proteinus, 278
Protenor, 87
Protenthes, 709
Proteoteras, 562
Prothalpia, 409
Protheca, 414
Protoboarmia, 602
Protocalliphora, 827
Protophormia, 827
Protoplasa, 688
Protoptila, 523
Protopulvinaria, 196
PROTURA, 1083
Provancherella, 945
Proxenus, 640
Psacaphora, 552
Psallus, 112
Psammobius, 420
Psammochares, 986
PSAMMOCHARIDAE, 985
PSAMMOCHARINAE, 985
PSAMMOCHARINI, 985
Psammoecus, 382
Psammophila, 1012
Psapharochrus, 451
Psaphidia, 652, 653
Psectra, 39
Psectraglaea, 650
Psectrocladius, 710
PSELAPHIDAE, 308
Pselaphus, 311
Pselliopus, 105
Psen, 1013
PSENINAE, 1013
PSENINI, 1013
Psenocerus, 449
Psenulus, 1013
PSEPHENIDAE, 366
Psephenus, 366
Pseudachorutes, 13
Pseudactium, 308
Pseudagenia, 989
Pseudaglossa, 623
Pseudamphasia, 248
Pseudanthonomus, 501
Pseudaonidia, 201
Pseudargutor, 225
Pseudenantha, 809
Pseudencyrtus, 979
Pseuderipternus, 958
Pseudeva, 626
Pseudibidion, 436
Pseudischnaspis, 201
Pseudobaeus, 326
Pseudobaris, 504
Pseudoboarmia, 602
Pseudochaeta, 817
Pseudochironomus, 712
Pseudocnemodus, 97
Pseudococcus, 195
Pseudoculicoides, 707
Pseudogalleria, 563
Pseudogaurax, 861
Pseudoleria, 844
Pseudolfersia, 868
Pseudolimnophila, 695
Pseudolucanus, 430
Pseudomedon, 287
Pseudomenopon, 63
Pseudomethoca, 993
Pseudophaonia, 829
Pseudophilippia, 196
Pseudopityopthorus, 318
Pseudoplisus, 1015
Pseudopomala, 29
Pseudopsila, 855
Pseudopsis, 278
Pseudopyrellia, 828
Pseudosiobla, 879
Pseudota, 304
Pseudotephritis, 850
Pseudothyatira, 588
Pseudothysanoes, 517
Pseudotractocera, 812
Pseudovespa, 1007
Pseudoxenetus, 123
Psila, 855
PSILIDAE, 855
Psilocephala, 764
Psilocorsis, 545
Psilodiamesa, 710
Psilodora, 968
Psilodryinus, 1008
Psilomastax, 921
Psilopa, 856
PSILOPINAE, 856
Psilopodinus, 771
Psilopus, 771
Psiloscelis, 317
Psilotreta, 526
Psinidia, 33
Psithyrus, 1033
PSOCIDAE, 60
PSOCINAE, 60
Psocus, 60
Psomus, 506
PSOQUILLIDAE, 62
Psorophora, 704
PSYCHIDAE, 539
Psychoda, 707
PSYCHODIDAE, 706
Psychomorpha, 634
Psychomyia, 526
PSYCHOMYIDAE, 526
Psychophagus, 981
Psylledontus, 980
Psyllia, 183
PSYLLIDAE, 182
PSYLLIINAE, 183
Psylliodes, 482
PSYLLIPSOCIDAE, 62
Psyllipsocus, 62
Psyllobora, 394
Psyllopsis, 183
Ptecticus, 751
Ptenidium, 312
Ptenothrix, 17
Pterallastes, 800
PTEROCOLINAE, 489
Pterocolus, 489
Pterocyclon, 517
Pterodontia, 760
PTEROMALIDAE, 980
Pteromalus, 981
Pteromicra, 845
PTERONARCIDAE, 57
Pteronarcys, 57
Pteronidea, 891
Pteronus, 891
PTEROPHORIDAE, 584
Pterophylla, 22
Pterostichus, 221
PTERYGOPHORIDAE, 894
Pteryx, 313
PTILIIDAE, 312
PTILIINAE, 312
Ptilinus, 415
Ptiliola, 312
Ptilium, 312
Ptilodactyla, 370
PTILODACTYLINAE, 370
Ptilodexia, 822
Ptilostena, 693
Ptinella, 313
PTINIDAE, 412
Ptinus, 412
Ptochiomera, 97
Ptomaphagus, 272
Ptycerata, 551
Ptychopoda, 591
Ptychoptera, 688
PTYCHOPTERIDAE, 688

PTYCHOPTERINAE, 688
Publilia, 155
Pulex, 868
PULICIDAE, 868
Puliciphora, 790
Pulvinaria, 196
Purpuricenus, 449
Pycnocelus, 19
Pycnoderes, 115
Pycnoglossa, 839
Pycnoglypta, 278
Pycnophus, 275
Pycnotomina, 380
Pygolampis, 104
Pyracmon, 965
Pyractomena, 321
PYRALIDIDAE, 571
PYRALIDINAE, 578
Pyralis, 578
Pyrausta, 575
PYRAUSTINAE, 572
Pyraustomyia, 813
Pyrellia, 828
Pyrgota, 804
PYRGOTIDAE, 804
Pyrgus, 672
PYROCHROIDAE, 338
Pyromorpha, 537
PYROMORPHIDAE, 537
Pyrophaena, 794
Pyrophila, 648
PYROPHORINAE, 342
Pyrrhia, 638
PYRRHOCORIDAE, 99
PYTHIDAE, 338
Pytho, 338

Q

Quadrigana, 947
Quedius, 294

R

Rachela, 593
Racheospila, 590
Rallicola, 65
Ramecia, 309
Ranatra, 140
Raphia, 626
Raphiptera, 580
Recurvaria, 550
REDUVIIDAE, 103
REDUVIINAE, 104
Reduviolus, 107
Reduvius, 104
Refonia, 223
Reichenbachia, 310
Rembus, 228
Remigia, 629
Renardia, 279
Renia, 622
Renocera, 846
Reticulitermes, 38
Retinia, 562
Retinodiplosis, 738
Reuteria, 121
Reuteroscopus, 113
Rhabdoides, 670
Rhabdomastix, 693
Rhabdophaga, 719
Rhabdopterus, 467
Rhadinoceraea, 888
Rhaeboscelis, 364
Rhagio, 759
RHAGIONIDAE, 758
Rhagium, 437
Rhagoletis, 851
Rhagovelia, 137
Rhamphidia, 690
Rhamphina, 821
Rhamphomyia, 787
Rhanis, 390
Rhantus, 260
Rhaphidolabina, 698
Rhaphidolabis, 698
Rhaphitelus, 981
Rhaphium, 774
RHAPIINAE, 774
Rhegmoclema, 749
Rheumaptera, 596
Rheumatobates, 136
Rhexidius, 309
Rhexius, 309
Rhicnoessa, 864
Rhiginia, 105
Rhingia, 797
Rhinocapsus, 113
Rhinomacer, 488
RHINOMACERINAE, 488
Rhinoncus, 508
Rhinopsis, 1008
Rhinosimus, 338
RHIPICERIDAE, 342
RHIPIDANDRINAE, 402
Rhipidandrus, 402
Rhipidia, 690
RHIPIPHORIDAE, 336
Rhipiphorus, 336
Rhizarcha, 920
Rhizomyia, 722
Rhizopertha, 416
RHIZOPHAGIDAE, 379
Rhizophagus, 379
Rhodites, 974
Rhodobaenus, 512
Rhodoecia, 638
Rhodophaea, 581
Rhodophora, 664
RHOGADINAE, 901
Rhogogaster, 882
Rhomphaea, 1040
RHOPALOCERA, 670
Rhopalomyia, 728
Rhopalosiphum, 187
Rhyacionia, 562
Rhyacophila, 522
RHYACOPHILIDAE, 522
RHYACOPHILINAE, 522
Rhymbus, 391
Rhymosia, 744
Rhynchagrotis, 659
Rhynchites, 488
Rhynchitinae, 488
Rhynchodexia, 821
Rhynchomilichia, 864
RHYNCHOPHORA, 485
Rhynchothrips, 70
Rhyncolus, 512
RHYPAROCHROMINAE, 96
RHYPHIDAE, 688
RHYPHINAE, 688
Rhyphus, 688
Rhysodes, 373
RHYSODIDAE, 373
Rhysophora, 857
Rhyssa, 938
Rhyssella, 938
Rhyssemus, 420
RHYSSINI, 938
Rhytidolomia, 79
RICINIDAE, 64
Ricinius, 64
RIODINIDAE, 681
Ripersiella, 195
Rivellia, 849
Rivula, 621
Robertus, 1040
Rocconota, 105
Roederiodes, 784
Roeselia, 669
Rogas, 901
Romaleum, 435
Rondaniella, 743
Ropalopus, 444
Ropronia, 961
ROPRONIIDAE, 961
Rosneta, 966
Rupela, 571
Rushia, 410
Rusticus, 681
RUTELINAE, 426
Rybaxis, 310
Rygchium, 1005
Rypobius, 276
Ryssematus, 510

S

Sabacon, 1074
Sableta, 304
Sabulodes, 609
Sacandaga, 693
Sacium, 277
Sackenomyia, 729
Sagaritis, 965
SAICINAE, 104
Saissetia, 197
Salda, 137
SALDIDAE, 137
Saldula, 137
Salebria, 582
Salia, 619
Salpingus, 338
Saltella, 855
SALTICIDAE, 1070
Salticus, 1073
Sameodes, 574
Samia, 587
Sandalus, 342
Sannina, 556
Sanninoidea, 556
Saperda, 455
Saprinus, 318
Sapromyza, 848
SAPROMYZIDAE, 847
Sapromyzosoma, 848
Sapyga, 992
SAPYGIDAE, 992
Sarcophaga, 825
SARCOPHAGIDAE, 823
SARCOPHAGINAE, 825
Sardiocera, 822
Sargus, 751
SARROTHRIPINAE, 632
SATURNIIDAE, 586
SATYRINAE, 682
Satyrodes, 682
Satyrus, 682
Saxinis, 462
Sayapis, 1029
Scambus, 942
Scaphidema, 402
SCAPHIDIIDAE, 313

Scaphidium, 313
Scaphinotus, 207
Scaphisoma, 314
Scaphoideus, 164
Scaptomyza, 863
SCARABEIDAE, 417
Scardia, 538
Scarites, 211
Scatella, 859
Scatophaga, 842
SCATOPHAGIDAE, 841
Scatophila, 859
Scatophora, 845
Scatopse, 749
SCATOPSIDAE, 749
SCELIONIDAE, 964
Sceliphron, 1012
Scellus, 777
SCENOPINIDAE, 765
Scenopinus, 765
Scepsis, 670
Sceptonia, 747
Schendyla, 1083
SCHENDYLIDAE, 1083
Schiffermuelleria, 546
Schinia, 663
Schistocerca, 33
Schizocera, 877
SCHIZOCERINAE, 877
Schizocosa, 1069
Schizogenius, 213
Schizomyia, 729
Schizophilus, 354
Schizotachina, 807
SCHIZOTARSIA, 1081
Schizotus, 339
Schizura, 616
Schlettererius, 961
Schoenicus, 400
SCHOENOBIINAE, 571
Schoenobius, 571
Schoenomyza, 836
Schreckensteinea, 555
Sciagraphia, 600
Sciaphilus, 492
SCIAPINAE, 771
Sciapus, 771
Sciara, 747
SCIARIDAE, 747
Sciocoris, 78
Sciomyza, 845
SCIOMYZIDAE, 845
Sciophila, 742
SCIOPHILINAE, 741
Scirtes, 370
Scirtetica, 33
Scobicia, 415
Scolecocampa, 621
Scolia, 995
SCOLIIDAE, 995
Scoliocentra, 843
SCOLIONEURINAE, 885
Scoliopelta, 751
Scoliopteryx, 624
Scolobates, 948
SCOLOBATINA, 948
SCOLOPENDROMORPHA, 1082
Scolopostethus, 99
Scolops, 176
Scolothrips, 68
SCOLYTIDAE, 514
SCOLYTINAE, 514
Scolytus, 514
Scopaeoma, 287
Scopaeopsis, 287
Scopaeus, 287
Scoparia, 577
SCOPARIINAE, 577
Scopelosoma, 650
Scopiorus, 948
Scotobates, 404
Scotochroa, 410
Scotogramma, 658
Scotolathys, 1036
Scraptia, 411
Scudderia, 21
SCUTELLERIDAE, 75
Scutigera, 1081
SCUTIGERIDAE, 1081
Scutopterus, 260
SCYDMAENIDAE, 274
SCYDMAENINAE, 274
Scydmaenus, 276
Scymnus, 394
Scyphella, 864
Scythris, 554
Scythropus, 491
Scytodes, 1036
Scytonotus, 1080
Secodella, 983
Sehirus, 77
Seioptera, 851
Seladonia, 1026
SELANDRIINAE, 888
Selenia, 607
Selenophorus, 246
Semiophora, 659
Semioscopis, 546
Semiothisa, 600
Senotainia, 825
Senta, 635
Sepedon, 847
SEPSIDAE, 854
Sepsis, 854
Septis, 648
Sergiolus, 1038
Serica, 422
Sericoderus, 277
Sericomyia, 798
Sericophanes, 123
Sericopompilus, 987
SERICOSTOMATIDAE, 530
SERICOSTOMATINAE, 531
Sericothrips, 67
Sericus, 348
SERPHIDAE, 964
SERPHOIDEA, 961
Serphus, 964
Serromyia, 708
Serropalpus, 410
Sesia, 556
Sesioplex, 957
Setodes, 527
Siagonium, 277
SIALIDAE, 38
SIALINAE, 38
Sialis, 38
Sibine, 535
SICARIIDAE, 1036
Sicya, 604
Sidemia, 645
Sideridis, 655
Sidusa, 1073
Sierolomorpha, 992
SIGALPHINAE, 902
Sigalphus, 902
Signiphora, 980
SIGNIPHORIDAE, 980
Silaon, 1009
Silis, 325
Silo, 531
Silpha, 271
SILPHIDAE, 270
Silusa, 299
Silvanus, 381
Simaëthis, 554
SIMULIIDAE, 749
Simulium, 749
Sinea, 106
Siphlonisca, 43
Siphlonurus, 43
Siphloplecton, 43
Siphona, 811
SIPHONAPTERA, 868
Siphonella, 861
Siphophyto, 811
Siphoplagia, 812
Sira, 16
Sirex, 874
SIRICIDAE, 874
SIRICINAE, 874
Sisyra, 39
SISYRIDAE, 39
Sisyrosea, 536
Sitodrepa, 413
Sitona, 493
Sitotroga, 550
Sitticus, 1073
Sixeonotus, 115
Smerinthus, 611
Smicronyx, 497
Smicrus, 313
Smilia, 152
SMILIINAE, 147
SMINTHURIDAE, 16
SMINTHURIDINAE, 16
SMINTHURINAE, 16
Sminthurinus, 16
Sminthurus, 17
Smodicum, 433
SOLENIINI, 1019
Solenius, 1019
Solenobia, 539
Solenopotes, 74
Solenopsis, 996
Solierella, 1009
Solubea, 80
Solva, 750
Somatium, 299
Somatochlora, 53
Somula, 802
Sonia, 562
Sonibius, 1082
Sophropompilus, 988
Soronia, 378
Sosticus, 1038
Sozibius, 1082
Spallanzania, 819
Spangbergiella, 163
Spanotecnus, 945
Spargaloma, 620
Spargania, 595
Sparganothis, 565
Sparnopolius, 763
Spathidexia, 823
SPATHIINAE, 899
Spathiophora, 842
Spathius, 899
Spermophagus, 485
Spermophora, 1038
Speyeria, 683
Sphacelodes, 609

SPHAERIDIINAE, 269
Sphaeridium, 269
Sphaerobius, 96
Sphaerocera, 844
Sphaeroderus, 207
Sphaerophoria, 797
Spharagemon, 32
SPHECIDAE, 1008
SPHECINAE, 1010
Sphecius, 1016
Sphecodes, 1027
Sphecodina, 612
SPHECOIDEA, 1008
Sphecomyia, 802
Sphecophaga, 947
Sphegina, 797
Sphenophorus, 512
Sphex, 1011, 1012
Sphida, 635
SPHINDIDAE, 416
Sphindus, 416
SPHINGIDAE, 609
Sphinx, 610
Sphragisticus, 98
Sphyracephala, 856
Spilaria, 832
Spilochalcis, 976
Spilocryptus, 930
Spilogaster, 831
Spilogona, 834
Spilographa, 851
Spilomicrus, 963
Spilomyia, 802
Spilonota, 562
Spilopsyllus, 868
Spilotus, 410
Spintharus, 1040
SPIROBOLIDAE, 1080
Spirobolus, 1080
Spodolepis, 602
Spogostylum, 761
Spongopus, 249
Spragueia, 633
Stachyocnemus, 88
Stamnoderus, 288
Stamnodes, 592
STAPHYLINIDAE, 277
STAPHYLININAE, 288
Staphylinus, 293
Statira, 407
Steatoda, 1040
Stegana, 862
Stelidota, 377
Stelis, 1030
Stenamma, 997
Stenelmis, 366
STENINAE, 282
Stenispa, 482
Stenocellus, 250
Stenocorus, 437
Stenocranus, 180
Stenodema, 124
Stenodynerus, 1006
Stenolophus, 251
Stenoma, 546
Stenopa, 851
Stenophylax, 529
Stenopleura, 812
Stenopoda, 104
STENOPODINAE, 104
Stenoporpia, 602
Stenoptilia, 585
Stenoscelis, 512
Stenosphenus, 448
Stenosyrphus, 796
Stenotarsus, 391
Stenotus, 131
Stenus, 282
STEPHANIDAE, 961
Stephanitis, 101
Stephanoderes, 518
Stephanopachys, 415
Stephanucha, 429
Stereocerus, 226
Stereopalpus, 340
Sterictiphora, 877
STERICTIPHORINAE, 877
STERRHINAE, 591
Stethaulax, 75
Stethobaris, 505
Stethon, 353
Stethophyma, 30
Stethorus, 393
Sthenopis, 534
Stibeutes, 929
Stichoglossa, 307
Stichopogon, 767
Stictia, 1018
Stictiella, 1018
Stictocephala, 148
Stictocranius, 284
Stictolinus, 289
Stigmatomma, 995
Stigmus, 1013
Stilbosis, 552
Stilbus, 392
Stilicus, 287
Stilobezzia, 708
STILPNINI, 928
Stilpnus, 928
Stiphrosomus, 945
Stiretrus, 84
Stiriodes, 635
Stobaera, 181
STOMOXYIDINAE, 828
Stomoxys, 828
Stomyles, 675
Strangalepta, 440
Strangalia, 441
Strategus, 428
Stratiomyia, 752
STRATIOMYIIDAE, 751
Straussia, 851
Strepsicrates, 562
STREPSIPTERA, 521
Strigoderma, 427
Strigodermella, 427
Strigota, 305
Strobisia, 549
Stroggylocephalus, 163
Stromatium, 435
STRONGYLIINAE, 407
Strongylium, 407
Strongylocoris, 118
Strongylogaster, 889
Strongylogastroidea, 878
Strongylophthalmyia, 856
STRONGYLOSOMIDAE, 1080
Strophiona, 441
Strophosoma, 492
Strumigenys, 998
Strymon, 678
Sturmia, 816
Stygnocoris, 98
Stylocryptus, 928
Stylogaster, 803
STYLOPIDAE, 521
Suillia, 843
Sulcacis, 417
Swammerdamella, 749
Sylectra, 624
Symmerista, 615
Symmerus, 740
Symmorphus, 1005
Sympetrum, 55
SYMPHEROBIIDAE, 39
Sympherobius, 39
Sympherta, 601
Symphora, 411
Symphoromyia, 760
Sympiesis, 983
SYMPYCNINAE, 775
Sympycnus, 775
Synaema, 1059
Synaptina, 304
Syncalypta, 373
Synchita, 387
Synchloë, 677
Synchlora, 590
Synchroa, 408
Syndyas, 785
Syneches, 785
Syneda, 625
Synelys, 591
Synemosyna, 1073
Synergus, 974
Syneta, 461
Synhalonia, 1028
Synoecetes, 947
Synstrophus, 409
Syntemma, 744
Syntomaspis, 975
SYNTOMIDAE, 670
Syntomium, 280
Syntormon, 775
Syritta, 800
SYRPHIDAE, 791
Syrphoctonus, 950
Syrphus, 795
Syrrhizus, 912
Sysinas, 115
Sysphincta, 995
Syssaura, 608
Systelloderus, 103
Systena, 480
Systoechus, 763
Systropus, 764
Syzeuctus, 934

T

TABANIDAE, 754
Tabanus, 756
Tabuda, 764
Tachina, 817, 818
TACHINIDAE, 807
Tachinomyia, 818
Tachinophyto, 809
Tachinus, 295
Tachistodes, 251
Tachopteryx, 49
Tachycellus, 249
Tachydromia, 784
TACHYGONINAE, 490
Tachygonus, 490
Tachymenis, 220
Tachypeza, 784
TACHYPORINAE, 295
Tachyporus, 296
Tachyris, 677
Tachys, 219
Tachysphex, 1009

Tachyta, 220
Tachytes, 1009
Tachytrechus, 783
Tachyura, 219
Tachyusa, 305
Taeniaptera, 853
Taeniocampa, 655, 656
Taeniopteryx, 59
Taeniorhynchus, 704
Taeniosea, 646
Taeniothrips, 68
Talavera, 1073
Tanada, 668
Tanilotes, 341
TANYDERIDAE, 688
Tanymecus, 491
Tanypeza, 854
TANYPINAE, 709
Tanyptera, 699
Tanypus, 709
Tanysphyrus, 498
Tanytarsus, 711
Taphrocerus, 265
Tapinocyba, 1052
Tapinogonalos, 960
Tapinoma, 998
Tapinopa, 1052
Tapinops, 950
Tapinostola, 635
Tarache, 633
Tarachidia, 633
Taracticus, 767
Tarpela, 407
Taxigramma, 825
Tegenaria, 1065
Tegeticula, 534
Telamona, 150
Telea, 587
Teleas, 965
Telenomus, 965
Teleorhinus, 114
Telephanus, 382
Telmaphilus, 745
Telmatophilus, 385
Telphusa, 549
Temnochila, 374
Temnostoma, 802
Tenebrio, 406
TENEBRIONIDAE, 400
TENEBRIONINAE, 404
Tenebroides, 374
Tenthina, 864
Tenthredella, 884
TENTHREDINIDAE, 878
TENTHREDININAE, 882
Tenthredo, 884
Tenthredomyia, 802
TENTYRIINAE, 400
Tephritis, 852, 853
Tephrochlamys, 842
Tephrocystis, 597
Tephronota, 850
Teratocoris, 124
TEREBRANTIA, 66
Terellia, 852
Teretriosoma, 316
Teretrius, 316
TERMITIDAE, 38
Tessaropa, 434
Tetanocera, 846, 847
Tetanops, 850
Tetartopeus, 286
Tethina, 864
Tetracha, 204
Tetrachrysis, 991
Tetracis, 608
Tetragoneura, 742
Tetragoneuria, 53
Tetragonoderus, 236
Tetraleurodes, 193
Tetralonia, 1028
Tetralopha, 581
Tetramedon, 287
Tetramerinx, 834
Tetramorium, 998
Tetraneura, 190
Tetraopes, 457
Tetraphleps, 109
Tetrastichus, 984
Tetratoma, 408
Tetropium, 434
Tettigidea, 37
TETTIGONIIDAE, 21
Tetyra, 75
TETYRINAE, 75
Teuchocnemis, 800
Teucholabis, 694
Teutana, 1041
Thalassomyia, 710
Thamnotettix, 170
Thanaos, 671
Thanasimus, 327
Thanatus, 1060
Thaumalea, 714
THAUMALEIDAE, 714
Thaumatopsis, 579
Thecodiplosis, 731
Thecophora, 804
Thectura, 299
Thecturota, 299
Thelaira, 822
Thelcteria, 576
Thelia, 150
Theliopsyche, 531
Themira, 854
Theobaldia, 704
Theonoe, 1041
Thera, 594
Theresia, 822
Theretra, 613
Thereva, 764
THEREVIDAE, 764
THERIDIIDAE, 1038
Theridion, 1041
Theridiosoma, 1058
Theridula, 1042
Therina, 605
Therioaphis, 185
Therion, 954
THERIONINI, 953
Thermobia, 11
Thermonectes, 262
Theronia, 935
THERONIINI, 935
Thersilochus, 958
Thiasophila, 307
Thinobius, 281
THINOPHILINAE, 776
Thinophilus, 776
Thiodia, 561
Thionia, 178
Tholeria, 574
THOMISIDAE, 1058
Thoracophorus, 278
Thorybes, 671
Thrinax, 889
THRIPIDAE, 67
THRIPOIDEA, 67
Thrips, 69
THROSCIDAE, 354
Throscus, 354
Thrypticus, 776
Thryptocera, 808
Thyanta, 82
THYATIRIDAE, 588
Thylodrias, 370
THYLODRIINAE, 370
Thymalus, 374
THYMARIDINA, 944
THYREOCORINAE, 76
Thyreodon, 953
Thyreopus, 1020
THYRIDIDAE, 571
Thyridopteryx, 539
Thyris, 571
Thysania, 624
Thysanocnemis, 498
Thysanoes, 517
THYSANOPTERA, 66
THYSANURA, 11
Thysiotorus, 928
Tibellus, 1066
Tibicen, 142
Tilloclytus, 448
Timandra, 592
Timulla, 994
Tinagma, 544
Tinea, 538
TINEIDAE, 537
TINEINAE, 538
Tineola, 539
TINGITIDAE, 100
Tinotus, 301
Tiphia, 992
TIPHIIDAE, 992
TIPHIINAE, 992
Tiphodytes, 965
Tipula, 699, 700
TIPULIDAE, 689
TIPULINAE, 698
Tischeria, 540
TISCHERIIDAE, 540
Tlascala, 582
Tmarus, 1066
Tmesiphorus, 312
Tmeticus, 1052
Tmetocera, 562
Tollius, 88
Tolype, 587
Tomarus, 385
Tomicus, 519
TOMOCERINAE, 15
Tomocerus, 15
Tomoderus, 340
Tomolips, 512
Tomostethus, 888
Tomoxia, 332
Tornos, 602
Tortembolus, 1052
TORTRICIDAE, 557
Tortricidia, 536
TORTRICINAE, 565
Tortricodes, 567
Tortrix, 568
TORYMIDAE, 975
Torymus, 975
Tosale, 571
Toumeyella, 197
Toxidium, 314
Toxomerus, 796
Toxomyia, 730
Toxorhina, 694

Trabaea, 1070
Trachea, 647
Trachelas, 1063
Trachelocamptus, 1052
Trachelus, 873
Trachichneumon, 921
Trachykele, 355
Trachymyrmex, 998
Trachyphloeus, 493
Trachysectus, 287
Tragidion, 449
Traginops, 866
Tragosoma, 433
Tramea, 56
Trapezonotus, 98
Traumoecia, 302
Trechus, 221
Trematopygus, 945
Tremex, 875
TREMICINAE, 875
Trepobates, 136
Triachora, 812
Triachus, 466
Triaena, 228
Triaenodes, 528
Trialeurodes, 193
Triaspis, 902
Tribolium, 403
Trichadenotecnum, 60
Trichina, 785
Trichiocampus, 889
Trichiosoma, 875
Trichiotinus, 430
Trichiusa, 301
Trichobaris, 504
Trichocellus, 249
Trichocera, 689
TRICHOCERIDAE, 689
Trichocladius, 710
Trichoclea, 657
Trichodectes, 64
TRICHODECTIDAE, 64
Trichodes, 328
Trichodesma, 413
Trichodezia, 592
Trichofoenus, 961
Trichogramma, 984
TRICHOGRAMMIDAE, 984
Tricholita, 656
Trichonta, 744
Trichopepla, 79
Trichopetalum, 1080
Trichophaga, 538
Trichophora, 819
Trichophya, 298
TRICHOPHYINAE, 298
Trichopoda, 807
Trichopria, 963
Trichopsylla, 869
TRICHOPTERA, 522
Trichopticus, 831
Trichoptilus, 584
Trichosia, 747
Trichotanypus, 710
Trichotaphe, 548
Trichothrips, 71
Trichotipula, 700
Trichrysis, 991
Triclistus, 951
Tricorythus, 44
Tricrania, 338
Tricyphona, 697
Tridactylus, 29
Triepeolus, 1025
TRIFILI, 731
Triga, 277
TRIGONALIDAE, 960
Trigonaspis, 970
Trigonodemus, 278
Trigonogenius, 412
Trigonophora, 645
Trigonotylus, 124
Trigonura, 976
Triliarthrus, 249
Trimerina, 857
Trimerotropis, 33
Trimicra, 693
Trimiomelba, 308
Trimioplectus, 308
Trineura, 790
Trinoton, 63
Triodonta, 800
Trionymus, 195
Trioza, 183
TRIOZINAE, 183
Triphleps, 109
Triphosa, 593
Triplax, 384
Triplectrus, 247
Triptotricha, 758
Trirhabda, 472
Trissolcus, 965
Tritogenaphis, 188
Tritoma, 383
Tritoxa, 849
Tritozyga, 714
Trochiloecetes, 64
TROGIIDAE, 62
TROGIINAE, 62
TROGINAE, 422
Trogium, 62
Trogoderma, 371
Trogomorpha, 921
Trogophoeus, 280
Trogus, 921
Tromatobia, 943
Tropaea, 587
Tropideres, 486
Tropidia, 799
Tropidosteptes, 125
Tropisternus, 266
Trotteria, 727
Trox, 422
Trupheoneura, 788
Trychosis, 931
Trypanea, 853
Trypeta, 852
TRYPETIDAE, 851
Trypetoptera, 846
Trypherus, 325
Tryphon, 947
TRYPHONINA, 947
TRYPHONINAE, 943
TRYPHONINI, 947
Trypodendron, 517
Trypopitys, 413
Trypoxylon, 1010
TRYPOXYLONINAE, 1010
Tryxalis, 29
TUBULIFERA, 69
Tullbergia, 13
Tutelina, 1073
Tychius, 498
Tychus, 311
Tyloderma, 510
Tylonotus, 434
Tymnes, 468
Tympanophorus, 294
Typhaea, 387
Typhlocyba, 174
TYPHLOCYBINAE, 173
Typitium, 331
Typocerus, 442
Typopsilopa, 858
Tyrus, 311
Tytthonyx, 322

U

Ufeus, 660
Ula, 694
Ulesanis, 1042
ULOBORIDAE, 1034
Uloborus, 1034
Ulolonche, 656
Uloma, 404
ULOMINAE, 403
Ulomorpha, 696
Ululodes, 42
Unitaxonus, 880
Upis, 405
Uranotaenia, 704
Urocerus, 874
Urodus, 553
Uroplata, 483
Urosigalphus, 902
Utetheisa, 665
Utopiellum, 1052

V

Valentinia, 551
Valgus, 430
Vanduzea, 155
Vanessa, 685, 686
Vanhornia, 962
VANHORNIIDAE, 962
Vanonus, 341
VELIIDAE, 136
Venusia, 596
Veppo, 753
Verrallia, 791
Vespa, 1006
VESPIDAE, 1004
VESPINAE, 1006
VESPOIDEA, 985
Vespula, 1007
Viereckiana, 955
Villa, 762
VIPIINAE, 896
Vitrinella, 603
Vitula, 583
Viviania, 812
Volucella, 797
Voria, 812

W

Wabana, 1052
Wagneria, 818
Wala, 1073
Walshia, 552
Websterellus, 976
Wesmaelia, 916
Williamsonia, 53
Winnertzia, 716
Winthemia, 817
Wohlfahrtia, 825
Wyeomyia, 703

X

Xanthia, 649
Xanthidium, 1026
XANTHOCHLORINAE, 776
Xanthochlorus, 776

Xanthoecia, 638
Xanthogramma, 796
Xantholobus, 154
Xanthomelanodes, 811
Xanthomyia, 852
Xanthonia, 467
Xanthopastis, 655
Xanthoptera, 633
Xanthorhoë, 595
Xanthosarus, 1029
Xanthoteras, 970
Xanthotype, 605
Xenadmontia, 809
Xenoborus, 126
Xenocoenosia, 836
Xenodusa, 301
Xenoglossa, 1028
Xenophorbia, 839
Xenopsylla, 868
Xenorhipis, 358
Xenos, 521
Xenotoma, 962
Xenylla, 12
Xerophloea, 162
Xestipyge, 317
Xestobium, 412
Xestocephalus, 163
Xestocis, 417
Xestocoris, 99
Xestoleptura, 441
Xestonotus, 248
Xiphandrium, 774
Xiphydria, 874
XIPHYDRIIDAE, 874
Xorides, 940
XORIDINI, 940
Xuthia, 388
Xyalaspis, 967
Xyela, 871
XYELIDAE, 871
XYELINAE, 871
Xyleborus, 520
Xylechinus, 515
Xylena, 651
Xylesthia, 539
Xyletinus, 414
Xylina, 651
Xylita, 410
Xylobiops, 415
Xylocleptes, 520
Xylocopa, 1028
XYLOCOPINAE, 1028
Xylocoris, 109
Xylomiges, 655
Xylomoea, 639
Xylomyia, 750
Xylonannus, 135
XYLOPHAGIDAE, 750
XYLOPHAGINAE, 750
Xylophagus, 750
Xylophanes, 613
Xylopinus, 405
XYLORICTIDAE, 546
Xyloryctes, 428
Xylota, 800
Xyloterinus, 517
Xylotomima, 800
Xylotrechus, 446
Xylotype, 651
Xysticus, 1066
XYSTODESMIDAE, 1080
Xystoteras, 970

Y

Youngomyia, 731
Yponomeuta, 553
YPONOMEUTIDAE, 553
Ypsolophus, 548

Z

Zabrachia, 753
Zabrotes, 485
Zaglyptus, 505, 943
Zagryphus, 944
Zalagium, 882
Zale, 628
Zaleptopygus, 958
Zanclognatha, 622
Zaraea, 876
ZARAEINAE, 876
Zarhopalus, 980
Zastenomorpha, 955
Zatypota, 937
Zele, 914
Zelia, 821
ZELIINAE, 914
Zelleria, 554
Zelotes, 1038
Zelus, 105
Zenillia, 814
Zenodosus, 329
Zerene, 604, 678
Zeridoneus, 97
ZETHIÑAE, 1004
Zethus, 1004
Zeugophora, 461
Zeuzera, 571
Zilla, 1058
Zilora, 410
Zodion, 803
Zonantes, 341
Zonitis, 338
Zonosema, 851
Zootrephes, 950
Zopheroteras, 970
Zophodia, 583
Zora, 1063
ZYGAENIDAE, 670
Zygethobius, 1082
Zygoballus, 1074
Zygogramma, 470
Zygomyia, 747
Zygoneura, 747
ZYGOPTERA, 45
Zygothrips, 70

MAP OF
NEW YORK STATE
Showing the Places Where the More Important
Insect Collections Have Been Made
LEGEND
Above 4000 Feet
3000 Feet to 4000 Feet
1800 Feet to 3000 Feet
1000 Feet to 1800 Feet
Sea Level to 1000 Feet
SCALE OF MILES
CANADA
LAKE ONTARIO
LAKE ERIE
PENNSYLVANIA
NEW JERSEY
VERMONT
MASSACHUSETTS
CONNECTICUT
LONG ISLAND SOUND
ATLANTIC OCEAN
ADIRONDACK MOUNTAINS
CATSKILL MTS
THOUSAND ISLANDS
Longitude West from Greenwich
J.W. CLEMENT CO.
MATTHEWS-NORTHRUP WORKS, BUFFALO, N.Y.